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"A pretty face can hide an evil mind. you'll give yourself away." Be careful what you say -

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2600 Magazine

numbers.) Our thinking was that

say: blame HOPE. than it should. We have one thing to issue is coming to you a bit later

such an event occurred. And never that we've gained. to all of us to hold onto the ground I hings are different now and it's up again will we be able to say that. Never before in this country has

on the second day we just lost count. August 13th and 14th. At some point between 1,000 and 1,500 people Pennsylvania in New York City on descended By all estimates, somewhere upon contrast to the the Hotel

about technology. share information about hacking and HOPE attendees came to learn and to subway, or over the ocean in a plane, country in a van, crosstown in a Whether they journeyed cross attendees from the United States. mention the diversity of all the Argentina were also on hand, not to Australia, Russia, Israel, and Germany. Other groups from Holland, England, Italy, Canada, the Chaos Computer Club of expertise. For the first time, hackers computers, radios, music, toys, and in America were able to meet with from all around the world with their love and obsession. People came a grass roots, down to earth labor of north, Hackers On Planet Earth was taking place simultaneously to the commercialized "Son of Woodstock"

the United States attended Holland's have hoped for. When people from It was really everything we could

> in 1993, they saw a spirit and Hacking at the End of the Universe this. something as large as HOPE, we those present, we succeeded in doing spirit that has always been present. over here, or rather, nurture the wanted to try and bring that spirit in this country. By organizing energy that had been largely quelled At long last, through the help of Galactic Hacker Party in 1989 and

rule. be the exception rather than the calls. But such blindness seemed to gathering was to make free phone appear that our only purpose in New York Times piece made it stupidity is hard to defeat - one public how to hook into the new technology, and showing the charged, or sentenced to prison. when we weren't being raided, something to say about hackers Internet. Of course, media reviewing our history, playing with Here we were holding seminars, And for once, the press had

and just gave everyone handwritten (Eventually we scrapped the system roaming loose in photo ID. It was a little taste of long periods of time in order to get a environment proved unfounded. The the participants was unbelievable. Eastern Europe and the patience of forced people to wait on line for botched registration system, which this especially true in the face of our behaved by any standard. We found massive crowd was extremely well All of the worries about hackers such

> conference ended.) Attendees will managed to wipe them before the of the computer after HOPE may be so, the technology just printed on a badge. While that still intrusive than having a name existing face would be less having a picture that matched an present will be tricky at best. gathering evidence on those "hacker conspiracy" in the future, of some absurd investigation of conference ever becomes the focus also be pleased to know that all of Through another misfortune, we planned on wiping the pictures out (By the way, we had always wasn't with us. Maybe next time. intentionally destroyed - if this the registration forms were

on the phone live from prison to even managed to get Phiber Optik with an enthusiastic audience. We rium always seemed to be filled hackers from overseas), the auditophones, boxing, lockpicking, going. And, no matter what the operative hotel phone system, the mostly because of added a great deal of magic to the speak to the crowd. That in itself topic (social engineering, cellular internal network managed to keep Despite a flaky net connection, an unco-

perhaps somebody who carried a might cause bad feelings. Or someone would be left out which Then we realized that inevitably trying to list them all by name. people. We toyed with the idea of dedicated help of many dozens of making this work without the We couldn't have come close to

small box from one room to to someone who got no sleep for another would be listed right next won't forget. hacking this summer. And we helped change the future of level. Suffice to say, we know who decided to keep it on a personal than risk all of that negativity, we result in fear and paranoia. Rather remain anonymous. This could who wanted more than anything to Or maybe a person would be listed up. This might cause resentment. three days trying to keep the net

tuture issue. We'll announce the details in a transcripts available in the future. to make it, we will have video For those of you who weren't able

happen again. count on our readers to make it HOPE-like event, we know we can And when it's time for another will be to continue the work of 2600. for our lapses. For now, our priority you're one of those, we apologize with us for having neglected them. If personal friends who are very angry collectors, subscribers, and close is very draining. We have bill this is the fact that such an endeavor while. One of the main reasons for HOPE isn't going to happen for a other parts of the world. But the next other special events taking place in This is not to say that there won't be take place on a regular schedule. special event and such events don't of these next summer. HOPE was a There isn't going to be another one We need to set the record straight requests from people asking if they can help with HOPE 2 next summer. We have been deluged with

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monitoring u.s. mail

MCHEMICAL Chemical Bank 270 Park Avenue New York, NY 10017-2070

Fabruary 25, 1994

John J. Stack Managing Director

3

by Paranoia

For readers, including this one, reluctant to subscribe because they fear being added to some sort of spook hit list, here is some more fuel for the

Delivery Point. The goal of the system is to imprint each mail piece with a number uniquely identifying the destination mailbox. Ideally, the mail can be machine processed up to the point where a bundle is given to the letter carrier in the exact order that he or she walks the route. These codes are pre-printed by bulk mailters (to earn discounts by saving the Postal Service some work) and by Postal Service. very high tech. They are constantly being improved and at this point can read virtually anything that is machine printed and most hand printed addresses at about ten pieces per second OCR's (Optical Character Readers). The OCR's are sprayed on the lower right front corner of all letters delivered by the United States Postal Service. These 5.9 or 11 digit (plus check digit) codes are derived from the destination ZIP or ZIP-4. and the two digit received. I'm sure readers have noticed the barcodes

Also available is NCOA processing (National Change of Address), which tracks all moves registered with the Postal Service. When the system works, it's dynamite (in spite of its bad rap, the Postal Service tries very hard and, in my opinion, succeeds most of the time). In a recent mailing, we submitted our list for NCOA processing at the end of a month and received data on state away at 5:00 pm on a Friday and most were delivered in the next morning's mail. We saved time, moves occurring during that month (posting of moves can take up to six weeks). The completed First Class mail pieces were submitted to a bulk mail center half a money, and trees by not mailing to the addresses we

> fails and the OCR can't decipher the address? Obviously, a person must get involved with these a letter went through the new process because it will bear an iridescent orange barcode on the back of the strays. In a new, still experimental, program an image of these stray addresses is sent electronically to an off-Printer and reunited with the letter. You can tell when site processing center, coded, returned to the Bar Code

contents of each piece (this would require a court order if they wanted to play by the rules), they could make a quiet deal with your letter carrier or show up at your local Post Office each morning and photograph each piece. Given the processing power now available at each OCR, it would not burden the system to include a list of thoroused for the system to include a Hacker. not out of the question) beeps and displays an image of the letter that entered the mailstream at OCR #12-3-A list of thousands (or tens or hundreds of thousands) of destination addresses to watch. Think of the power! A Now the spooky part. Let's assume that the spooks are gathering data on you. It doesn't take much imagination to assume that they would be interested in your mail. Even if they didn't actually read the just two minutes ago addressed to Dangerous John terminal near the spook on a case (mobile terminals are

Now, with all that time and energy saved, the spooks can expand their watch. Technology to the rescue - I'm feeling safer already!

The POSTNET barcodes are made up of long and short bars at 22 per inch. Long bars (nommally 0.125") are about twice as long as short (0.050") bars. Nominal bar width is 0.020 inches. Each complete barcode is framed with one long bar at each end. Individual digits are made up from five bars, two long and three short. Digit values are: For The Curious

9=10100	8=10010	7=10001	0	5=01010	_	3=00110	2=00101	

"I" represents a long bar. Another way to view the codes is to assign weights 7, 4, 2, 1, 0 from left to right and define eleven as digit "V". The rightmost code is the check digit, assigned such that the sum of all digit, including the check digit, is a multiple of ten. Valid codes will have a total of 6, 10, or 13 digits. A 9-digit ZIP+4 plus the two digit Delivery Point will total 62 bars. 0=11000

> 7 A ${f R}$ 0

Dear Chemical Bank

CFCO

Here is what is important for you to know

- longy has band of red death as error in a compute softent approach the counted makes of All transactions to be defined rates from exchancement at Counted lank. Because yet did at least on All or sections transaction on this Privacy 15 or 16, the data when the south a defiction occurred, we are writing to 1st yet less that the problem we found and trans. However, we represent my inconsistance are wells, we want you to have we call outhly a Market

P

- In critic counted bills (benefit has begaded as All compact program that control of the delication of tentral has been deaded these free control between places. In the principal was being control between particles, and the delication of the control of the contr

Nothing is sore important than your confidence in us. When we say Expect more from us," we want to be counted on in every sepact of our relationship. We also know he week you rely upon and use our Affe and other bank technology and we want you to continue to feel secure when doing so.

We can't promise we'll never make mistakes. We can offer this generates:
we'll do our best to fix problems quickly, and we'll be fair, open, and ethical
in correcting our mistakes should they hopen. If you have any questions,
please call Servication at 935-9933 or 1-800-935-9935 ontoids the tri-state erea.

MCI

May 9, 1994

Dear Customer

As a result of a computer systems error, your long distance service may have been switched to MCI on or about April 15, 1994.

We account for any incommentum was may have caused you. We have located and corrected the problem. We have also informative food interpretation of the process of comments for local interpretation company. In this process of comments your long distances selected built to jour previous areas if it is and selected consisting your long distances selected built jour previous areas in it is and selected configuration. On continuities you cause are select garden but you cause are selected any of the configuration carrier, you can dear you can be also garden as the configuration of the continuities.

マスロ

There is normally a line item design associated with charging fore of elementa-cernine and this drops only appear on your fill. Do not be pit is periodate item. Your account will be one-field for the centre charge fee. We have arranged with the local integrations company to eliminate any convention charges associated with the arraneous events to MCI.

if you have further questions about this matter, or do not see the credit appear on your bit as mentioned above, please contact MCI Customer Sevices toil fee at 1.000.535.4817 oy your local telephone company. You can find your local telephone bit.

James R. Weber Director, Customer Service and

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knew were bad - in advance.

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RISH TELEPHONES

The Irish Telephone System by Wonko the Inane

the network - is also debatable as one of the political parties (Fine Gael) is attempting to abolish their monopoly status. the company with a full monopoly that governs Ireland is debatable at this moment in time. Indeed the current state of Telecom Eireann -The current state of the phone network in

diverse independent fibre optic routes to North America. Dedicated satellite links with North landing in Cork and Telecom Eireann's holdings in the TAT cable systems provide the TE-BT1 fibre optic system and the eastbound leg of the PTAT-1 cable. Satellite services to Europe are provided via the EutelSat system, while Earth stations in the Services (I.B.S.) earth stations in Galway and America are provided via Intelsat Business access the Far East. A PTAT-1 cable spur Netherlands enable Telecom Eireann to Terrestrial access to Europe is provided on

use, as these have been upgraded through digital lines to fibre optic cables. Which medium is used during a phone call is dependent on the root or S.T.D. code of the There are now very few analogue lines in

and interconnecting LANs. Customers of this joint AT&T/Telecom Eireann service are now able to gial up high speed digital links on (S.D.I.) networking facilitates video-conferencing with the U.S.A., data files and dialing, detailed call management reports, and very significant discounts on international very significant is to be interconnected with reals. The system is to be interconnected with which provides a virtual private phone network for international calls, fax, and dial-up data traffic. It gives customers 7 digit international C.A.D. or C.A.M. applications transmission, Network (I.V.P.N.). Switched Data and Image "A.T. & T. Ireland is promoting its new Global Software Defined Network (G.S.D.N.) Telecom Eireann's International Virtual Private

mobile telephone system. One number will find you, right across Europe. Digital transmission means a new quality of sound, of a new, integrated, panEuropean digital freedom, all over Europe. Eircell G.S.M. is part "Eircell G.S.M. will offer you the same

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the ability to transmit and receive data as well as speech and a new level of privacy and security. The new Europe means we've now got a home market of 360 million. If you want to talk business with them, talk to us first.... Freephone 1800-225588"

The Network

Of the sample taken in Waterford it may be extrapolated that the most used type of exchange in Ireland is the Ericsson E10.

Capacity: 25,472 ARF Exchanges: 22 ΑXE

Exchanges: 7 ARK

Exchanges: 55 Capacity: 22,000

There are many gimmicks available to Gimmicks

Call waiting Call diversion

The 24 hour alarm system is activated on digital exchanges by typing in: '55'hhmm# and then listening for a return tone and finally replacing the handset. to mention but a few of those available

Payphones

collector's item. It can now only accept 10p and 50p coins (as most other coins have been The old rotary style payphone is identified by its very robust design and (very often) its black enamel flaking off of it. These are very hard to find nowadays and really are a replaced by smaller versions)

possible by depressing the switcharm rapidly to phone any destination without costing any money (except of course where Telecom With these old rotary machines it is

Capacity: 41,974 Exchanges: 41

Capacity: 14,600

Exchanges: 6

Capacity: 3,015

The E10 and AXE exchanges are the only digital ones in use, the others are analogue 'crossbars' in nature.

those on digital exchanges. Examples being: 24 Hour Alarm System

International advice of duration and

service, "Inmarsat" call

service.

Operator assistance

Eireann's concerned)

The remaining types of payphones are essentially the same, as far as the type of dialing goes anyway. These are keypad payphones but are not the R-type keypad which many of the gimmicks described above necessitate. In other are available for use from a payphone. words, not all of the gimmicks described above Of these types the units are paid for via

coinage (i.e., Payphone 50/400), smartcards or introduced to the system only two years ago.
The smartcard payphones are, like the credit cards. The smartcard and credit type payphones are relatively new as they were

a hundred (\$16) on them. and in pubs. The cards themselves are available in units of ten (\$2), twenty (\$3.50), fifty (\$8), and coinage ones, available for use on the streets

available for use only in upmarket areas such as horiels, restaurants and even museums. (e.g. The Modern Art Museum at the Royal Kilmainham Hospital in Dublin.) As mentioned in rotary payphone, a collector's item and are (Spring 1992), a P.I.N. is required to use this the article on the Australian Phone System The credit card payphones are, like the old

Special numbers, Operator assistance, etc.

Personal calls. l elecard service. Alarm calls. Reverse charge request. Advice of duration and charge

continuous ringing.) Ringback no. (characterised ЬУ

Mobile Telephone service (Eircell) prefix.

International calls assistance excluding

International personal calls. International reverse charge request. Audio conference calls.

Connection to Satellite Radio Maritime

Connection to Coastal Radio Station

Repair service. Telemessage and International telegrams

999

Emergency number. (Police, Ambulance, Fire Brigade, Boat & Coastal, Mountain & Cave) This is roughly equivalent to the U.S. 1190 911 phone number.

1191 second intervals). The Speaking clock (24 hour format, at 10 Direct inquiries within the whole of Ireland.

Codes for British exchanges. Direct inquiries within all of Britain.

1800 1850 The code prefix for Freephone numbers. The code prefix for Eirpage relays

800-10-353 from Denmark. 9800-10-353 from Finland. 1900-353 from France. 078-110-353 from Belgium. 0014-881-353 from Australia. 1800-463-2050 from Canada Long Distance Operators To Ireland

8000-353 from Hong Kong. 177-353-2727 from Israel. 1720-353 from Italy. 0039-353 from Japan. 000-953 from New Zealand. 0800-0-353 from Luxembourg. 06-0220-353 from Netherlands

0130-800-353 from Germany

Long Distance Operators From Ireland 00-61 to Australia. 900-990-353 from Spain. I think you get the idea!

00-61-2 to Sydney, Australia.
00-32 to Belgium.
00-34 to Spain.
00-44 to the U.K.
00-31 to the Netherlands.

This service offers to the paying public a Minitel package where any telephone number (excluding ex-directory numbers) may be looked up via the software There are three options: Electronic Directory Service (E.D.S.)

possible numbers By being more precise the range is narrowed down until finally only one number is Surname, first name, address + STD code Surname, first name plus STD code

Surname plus STD code giving a range of

listed on the screen.

MINITEL operates at a baud rate of 9600.

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HERE'S HOW YOU PLAY — (RIP-OFF MA BELL)

FRAUDULENT LONG DISTANCE CALLS AS YOU CAN. USE A FAKE CREDIT CARD; SOMEONE ELSE'S PHONE NUMBER; OR IF YOU'RE AN ELECTRONICS NUT, BUILD A BLUE, BLACK OR RED BOX. SOUND LIKE A GOOD RIP-OFF? RIGHT ON! JUST GO TO THE NEAREST PHONE, AND PLACE AS MANY

TOLL INVESTIGATORS, AND SECURITY AGENTS (NOT TO MENTION LAW ENFORCEMENT AGENCIES) TO CATCH YOU. AND WHEN SHE DOES CATCH YOU, THE GAME IS OVER ... AND YOU WINN." NOW, HERE'S THE HITCH...MA BELL DOESN'T GROOVE ON THIS ACTION, SO SHE USES HER COMPUTERS, CENTRALIZED

NOW, DIG THE PRIZES -

2ND PRIZE: YOU GET UP TO 5 YEARS IN PRISON.
2ND PRIZE: YOU GET TO PAY A FINE UP TO \$1000.00.
3RD PRIZE: YOU GET TO PAY FOR ALL THOSE CALLS.
GRAND PRIZE: YOU GET ALL THE ABOVE PRIZES.
BONUS: YOU MAY GET TO PAY THE COURT COST.

HEAVY, MAN!!

GUESS WHO THIS LITTLE WALL POSTER WAS AIMED AT? Hint: It was hung at colleges in the early seventies! Far out.

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Board

Washington is an "alternative" (aka hippie) college which grew out of the academic counterculture of the late 1960's. During the 70's and 80's, Evergreen was another story). computer center occupying Room 2600 of the Evans Library building - but how we pulled that off is hackers (testimony of this can be found in the campus the home for a variety of innovative phreaks and protoby Autolycus The Evergreen State Col 2600 of the Evans

the locally infamous "Ghost Board". In the Pacific Northwest, the Ghost Board is legendary, though much that has been written about it is more mythical than conversion of an elevator emergency phone to an active WATS line, as well as his overdubbing the factual (no, the Ghost Board never posted classified screech used in the Emergency Broadcast System radio tests with 2600 Hz. But nothing has been written about files are circulating which document Saladin's monopoly over such systems was, fortunately, the worst bust we were ever involved in. A number of text FCC over the campus radio station's (KAOS) bootleg elco cops and other powers that be. The busts by the hone switchboard system during the era of Ma Bell's Some activities of this community are public

dialups for the nearby Bangor Missile Basel.

The Ghost Board was a parasitic bulletin board mostly a message system - which sporadically and
temporarily operated covertly in a number of computer
dial-up systems without the knowledge of the sysop
(though more than once the assistance of a co-sysop
was used). In the early days this was accomplished
were simply formally themselve. simple encryption methods), but with time more intricate operational procedures were used. Regardless of the system used, the basic Ghost Board procedure was as follows very simply (usually through shared accounts and

message areas. (This was done in a variety of ways ranging from simply typing an unlisted character at the main menu of a Wildeat system, hitting ALT E, S, C on a LAN system, or using an ANSI bomb to drop to hours of the morning and access non "advertised" 1) Members would call the system in the wee

The Ghost Board only operated between midnight and 5 am. It was little more than a floating database system collecting; compiled addresses and phone numbers of every payphone in the area, test loop numbers, information on local computer systems and

security flaws, flaws in local PBX system, pilfered

College in Olympia, The original Ghost Board never lasted for more than two or three evenings at a time and only operated every sixty days or so. In the late 1980's one ghost actually a separate entity. utility based BBS called the Ghost Board, but this was board member operated an elite local text and phreak where and when the Ghost Board was up and operating

As BBS systems proliferated in the early and mid eightles the Ghost Board began using simple ANSI bombs to gain superuser access to poorly tended systems. From this vantage unused menu keys were assigned to access the hidden sub-board system. At different times, work-study positions and academic "interaching" as fore access; present access to be break. needed information (i.e., LOST - Dalmatian puppy with tag reading ATDT, call 555-7734 before 7/22, ask for Keith - where "Keith" was the name needed to gain newspaper where periodic messages conveyed the the free lost and found classified ad section of the local was changed. The most common method was to use

For a short period of time in the early 90's, one Ghost Board pioneer abandoned an AT (he'd "intenships" at State agencies were used to burrow out hosts for the Ghost Board. For half a year I periodically set up a message system on a state agency's computer system and hooked up my own external modern. At a later due the local finaling and canalog for the library was hacked and bogus book meritars accounted to severe or information. system operated for almost five months before it was modem was spliced into the store's phone lines. purchased it for \$40 at the Goodwill) on the roof of a rural supermarket. The AT was water-protected and hardwired into the store's power grid and the 2400 entries were used to pass on information.

a rough date for the next Ghost Board was listed.

3) The system would (ideally) self-delete at a where Ghost Board members could communicate, and 2) A message/database system was available

predetermined time and no trace of the system would

the last you will hear of us! and child-operated BBS systems. With any luck, this is Getting ready to fax us

operating with the assistance of various UNIX systems

At present the Ghost Board is still sporadically

(516) 474-26**7** (so far it spells 474-BOSS & 474-COPS) We have a new fax number:

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HACKING NETCASH return message would look like this From: netbank@agents.com To: jo@blow.com

NetCash \$1.00 E1234H5678Z from 25 cents to 100 dollars. A sample string of Netcash would look like this: for a certain amount of money, ranging in an alphanumeric string, each standing Recently in the July issue of Boardwatch I stumbled across a pretty interesting article about Netcash. What Netcash is is online 'money' represented Subject: NetBank Receipt, Accepted: 0, Rejected: 1 Input Transaction(s):
REJECTED: NetCash \$10.00 K52286154A/Accept

Total Accepted: \$ 0.00

There is also an option of 'Making Change' This is just a basic rejection message sent to

begging to be hacked. I have not seen many places accepting Netcash at the moment, however it is there, and how take a crack at it? could we live with ourselves if we didn't Uses of Netcash To: netbank@agents.com NetCash \$20.00 E54466122A/Change 1 Ten 2 Fives

his Netcash by dialing 1-900-933-CASH with his modem. Then he will be issued a \$10 Netcash string. After getting the string, he would leave you a message telling you the string and requesting the

If you bought a software program for \$7.00

a request message, asking for the validity of the string, to netbank@agents.com. In them to validate it, in this format: the body of the message, you have to ask

NetCash \$1.00 E1234H5678Z/Accept valid string): Then the system will reply like this (for a

To: jo@blow.com From: netbank@agents.com

Input Transaction(s): Accepted: NetCash \$1.00 E1234H5678Z/Accept Subject: NetBank Receipt, Accepted: 1, Rejected: 0 Total Accepted: \$1.00

NetCash \$1.00 E54466122A What has just happened is the system

has validated the old string, which someone might have given to you to pay in Netcash, as well as revoking the old for something, and given you that amount

string for use anymore.
If the string was not validated, the

As you can probably see, Netcash is in Netcash. Let's say you want to buy multiple pieces of software, but you only have one \$20.00 string in Netcash. What you do is send you. From: jo@blow.com another message looking like this:

Let's say you were selling some program online, and you accepted Netcash as a form of payment. The buyer would get a \$10.00 string. you would get Netcash change if you gave them NetCash \$ 5.00 J83662917A NetCash \$ 5.00 M32299134A string and two fives: NetCash \$10.00 L73522979A That's all, they will send you a return receipt not differing in format from the others. They will then issue you one \$10.00 Netcash

Now to get your Netcash you must send

entertaining at first, but you're soon gonna want some real cash from this, so, you must fill out an e-mail form requesting an account on

Doing all of this electronic money stuff is

NetCash \$100.00 E4321J8765W/Deposit 123456 NetCash. Then, once issued to you, you deposit

our Netcash as so:

Where 123456 is your account number.
The company takes a twenty percent surcharge due to "costs of keeping up the 900 number'

future we'll get our hands on the algorithm for it. Here is a list of the important info for netcash: good idea of Netcash and maybe in the near Well, by now I hope you've gotten a pretty

get your \$10.00 Netcash string. 1-900-933-CASH: Modem 900 number to netbank@agents.com: The e-mail address

for all your transactions.

Netcash string: an alphanumeric string containing eleven

Welcome to MEI

meaning you can search for a person's name by using this or her phone number. This system is similar to a computerized 'yellow pages' for Bell employees. MEL is wallable 24 hours a day, seven days a week, and can be called from any ouch-one telephone.

How to Use MEL

First you must have a MEL access number, which I have included at the end of this article. MEL has access numbers for 16 area codes. If yours is not listed, then you can use the 800 access number. Then follow the steps below and voila, you have access to all of

touch tone phone.

0: employee benefits
9: quick call options

This is not very useful, but if you had a good imagination you could really fuck with some SWB

Mechanized Employee Locator. This system provides access by telephone to the official company directory. Mechanized Employee Locator, MEL for short, for certain purposes like dialing an employee long

distance for you for free.

Southwestern Bell's employees

 When MEL answers it will ask you to press the * button if you have a touch-tone phone or if you are on a rotary-dial phone it will then transfer you to the SWB switchboard. This is not good... so call on a

tone phone it will give you four commands you can use to access employee benefits, or go through the employee directory, etc. 2. After you let MEL know you are on a touch-

Commands and Description

describe each of them, although the employee locator *. employee locator (this is what we want)
3. Now choose the command you want. I will company functions

is the most useful one. 0 - Telephone Company Benefits

report deaths. You can also change an employee's If you choose the '0' command it will give you access to employee benefits for retired employees and current employees. If you choose retired employee benefits it will give you information about pension, medical, and other insurance matters. You can also

employees.

9 - Quick Call Options

and title information for all Southwestern Bell Telephone employees. MEL offers a call-completion function that will automatically dial the number of the person whose number you search for. Although this feature is not really important for us, it could be used provides name, phone number, address, department,

MEL also offers a reverse-search capability

3 Department (D)
4 Hear Again (H)
5 Location (L)
6 Number (N)
7 Spelling (S)
8 Tüle (T)

Work Cross Reference (W) Enter/Skip or Search

MEL Directory
Linle Rock AR (501) 373-1411, 1+990-5479
Fort Smith, AR (501) 785-1411, 1+990-5479
Pine Blidf, AR (500) 534-1411, 1+990-5479
Kanaa City, KS (913) 676-1411 St. Louis, MS (314) 331-1411, 1+572-9040 Kansas City, MS (816) 275-1411, 1+572-9940 Springfield, MS (417) 836-7411, 1+572-9040 Oklahoma City, OK (405) 291-1411, 291-1775 Tulsa, OK (918) 586-1411, (918) 586-1775

1-800-660-7MEL is for toll-free access. The 1+ numbers are also toll-free, 1-800-G0-7TO-SWB is toll-free access for areas outside Southwestern Bell and areas with no working local or intralata toll-free numbers. Dallas, TX (214) 464-1411 Houston, TX (713) 871-1411 San Antonio, TX (512) 222-0411

3. Award Rectemption Line
4. Affirmative Action Hotline
5. Tuition Plain Numbers
6. Open Network Architecture Hotline
7. Payrall

- Company Functions

Enter a Keyword or abbreviation then pound.

I have no idea what this is and really don't feel like messing with it. Besides, it doesn't look very useful....

Enter a last name then pound. * - Employee Locator

Let's say you enter 'Jone' in, which would stand for 'jones' but you only need to enter in four digits, which are 2663, then pound. It will then ask you for a first name. Say you put 'Sam' in, which is '726, then press pound. It will ask you if you want to narrow the search by entering the state abbreviation. You could do this but you would probably want to find all of the matches. It will find matches for this

particular entry Call up MEL: 1-800-660-7635

Press * to left those you are on touch one.

Press * to deat * elements of the flust name than #.

Enter at least 4 characters of the flust name than #.

Enter a state (MOAR.KS.OK.TA) to narrow the search.

Press * to skip listing or to revere search by number.

Press * to more dual e-enter.

0 Operator I Help 2 Complete Call (C)

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GENERATING AN

aid you in cross referencing phones, as well as deciphering ESN's to identify the type of phone This article explains how the ESN is generated based on the serial number stamped on the phone by the manufacturer. This will not you in cloning, but this will

in HEX or 6 digits of serial number.

G.E.: Serial number is the ESN Harris: Serial Number is the ESN

Technophone: Serial Number is

letter, add 129. seriai 603E00109249, ESN 12900109249. MEC: Remove first 2 digits, add 135 plus 0's to equal 11 digits. ESN in decimal. Oki: Remove first 3 digits and tter, add 129. Serial # 70-207470, ESN

13500207470.

Novatel: Serial number is ESN

15200010842. 14200007306. Serial Walker: Serial number is ESN # 15200010842, 14200007306, ESN ESN

Audiovox BC-20: Remove first 4 digits, add 174 plus 0's to equal 11 digits. Serial # 7104007592, ESN 11 digits. 9 17400007592.

on a sticker on the transceiver labeled "Sec. Code". Mitsubishi: The ESN is written

Panasonic: Remove first 2 digits, add 136 plus 0's to equal 11 digits. Serial # 117591, ESN

13600117591.

ESN 15600154056 Mobira: Add 156 plus 0's to equal 11 digits. Serial # 154056,

Hitachi: Put 13200 in front of serial number. Serial # 157921, ESN 13200157921.

Manufacturer Decimal Codes (Use As Ħ

Alpine: 150

ESN

Diamondtel: 134 AT&T: 132 or 134

Clarion: 140 Blaupunkt: 148 Astrotel: (see Oki)

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Panasonic: 136 Phillips: 170 Satellite: 161 Shintom: 174 Sun Moon: 178 Hyundai: 160 Kokusai: 139 Walker: 152 Toshiba: Oki: 129 Novatel: 142 Nokia: 165 NEC: 135 Motorola: 130 Mobira: 156 Mitsubishi: 134 Hitachi: 132 Fujitsu: 133 G.E.: (except mini) 146 EF Johnson: 1 Ericsson: 143 Technophon : Harris: 137

Several phone companies share manufacturers, and the ESN code will be that of the manufacturer:

Applies 9510 use Pujitsu 363A - ARA.

ATET 1100, 1200 use Mitsubishi

ATET 1100, 1200, 1400, 1440, 1700,

1710 use Hitachi Audiotel 1000, 3000, 500,

400, 450, 550, 600 use Toshiba.

PC 100, 200 use Technophone.
BC-20, CMT-125 use Shintom.
Tactel use Toshiba. Blaupunkt, most are Panasonic, but

some are Blaupunkt. Mitsubishi 460 use Toshiba. Glenayre-301 use Mitsubishi GE Mini use Mitsubishi

GTE Bronze uses Sun Moon Star. Western Electric use Hitachi. Western Union use E.F. Johnson. USA A&B use Mitsubishi. Walker Pocketphone use Technophone Tandy/Radio Shack uses Nokia.

For serial numbers over 999,999 you will need to subtract 737,856. 385,600. Then convert this For Example: 01,123,456 - 737,856 it were Bronze, to the

If you have any questions, try to find some of Tesla's books, and you'll have a lot more. 17800385600 = ESN.

the ten dollar red box

I bought the guts to a Hallmark card at 3 pm yesterday. Before 5 I had a working box. Here are the instructions for the complete idiot (or those just having trouble). by Toxic Avenge Materials

1 1/8 inch mono phono plug (~\$1 or in a 1 Hallmark digital recording card (~\$8,

junk bin)

I SPST switch, or momentary contact NORMALLY CLOSED (~\$1 or junk bin) NORMALLY CLOSED (~\$1 or junk bin) The sound of magical quarter tones (you can get these from payphones, computer sound files (QUARTER.VOC is one), other red

A case of some sort (I used a case from a DAT, but anything you can put the stuff in will work. Perhaps the case from a data tape or an 8mm videotape, or just a cassette.)
A Tube of silicone sealant (epoxy will boxes, tape recorders, etc.)

probably do, I just happened to have silicone on hand)

What To Do

Remove all components from the plastic thing inside the card. This includes sliding the battery pack out of its drawer.
 Cut the following wires:

Both wires going to microphone (both are green, mark which one goes to the center of Both wires to the battery pack (red and

Both wires to the switch mechanism

(green and black)
(green and black)
2a. (optional) It is a wise idea (if you are fairly experienced at soldering/desoldering on small PC boards) to desolder all the wires and replace them with ones of a thicker gauge. The ones that Hallmark supplies are just too damn thin and have a real tendency to break at plastic grooves that you removed them from.

3. Discard the switch mechanism. connections. Remember, the wires in this card are supposed to be protected in the little

used red tape just to be cheesy, since the box 4. Wrap the battery pack in electrical tape (I

green wires that used to go to the original switch (polarity is not important). 5. Solder the SPST switch to the black and

6. Solder the phono plug to the two green wires. Polarity shouldn't really be important, but to be on the safe side, the wire that ran to the center of the mike (I told you to mark it)

should go to the TIP of the plug

7. Connect the battery. (This battery pack puts out 6.25 VDC. I suppose you could replace it with another battery, but why bother?) Polarity is extremely important! The red wire goes to the positive terminal, and the white goes to the negative. On my box, if the pack is alying flat, with the exposed part of the batteries pointing up, the positive terminal is the one on the left (if you are just to be sure. facing the terminals). I'd use a multimeter s battery

battery (this saves space and hassle later, but is not necessary for operation). 8. Glue the PC board to the top of the

9 Program the hing...

I used the QUARTER VOC file and I looped it 10 times, with a random delay of between .5 and 1 seconds between each quarter (who puts them in at regular intervals anyway?) If you have this file, plug the phono plug into your soundcard, urin the volume way down (trial and error times). will give you the proper volume) and play the VOC file (after setting the switch on the PC board to the record position, and flipping the SPST at the beginning of the VOC file).

Best way to test is to call long distance Directory Assistance (I'm partial to 808-555-1212 which is Hawaii).

If it doesn't work, go back to step 9.
The ideal volume is one that can be heard to the step 9. 10. Test it...

break up. clearly, but does not cause the speaker to

programmed, there is no need to keep the phono plug attached. If you want to save room, cut it off.

12. Put the thing in the case. Drill several holes in the case where the speaker will mount. I mounted the speaker will silicon very carefully applied to the edges of the speaker. Same was I true of the battery pack. The switch obviously mounts in a hole on the side of the case.

Why the SPST Switch?

First off, I thought the switch that came with the thing looked really cheaply made, and would probably break. Secondly, by putting in a switch instead of a momentary switch, it allows me to record \$2.50 on the box, and play the whole thing back just by flipping the switch, rather than having to hold it down.

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NYNEX.Company

John H. Hann Managing Director Corporate Security

March 10, 1994

185 Franklin Street, Room 200 Boston, Massachusetts 02110 Phone (617) 743-4330

Re: Violation of Public Trust

Boston, Massachusetts 02110 Mr. Andrew R. Rockwell Vice President & General Manager 125 High Street, Room 1260

There are many factors important to the success of our business; not the least of these is the public trust. Historically NYNEX has zealously puraded the integrity of its network. Our present competitive position in the telecommunications market gives NYNEX special responsibilities. If our customers do not believe we treat the privacy of their communications as sacred, they will turn to other alternatives.

NYNEX managers must clearly articulate the standards necessary to build and maintain public confidence. Our customers expect and deserve absolute privacy. Any behavior by employees which compromises this customer right is grounds for termination of employment. This includes the instantian of employment. This includes the instantian of employment. This includes the instantian of employment. This includes without legal authorization, unantiforzide access to customer's conversations except as required in the proper management of and instanting to customer's conversations except as required in the proper management of

Consider this as a reminder of these long established standards, and a specific request to properly supervise traps on telephone lines. The NYNEX Code of Conduct is specific. There is only one standard: we protect the privary of nutronex's communications and records. No violation of the public trust can be tolerated. Please communicate this standard to your management team and report any suspected abuses of this policy to Security. Our survival as a business depends on our ethical foundation.

Managing Director Corporate Security

guard their own. We also have to wonder if this little memo means they're having a bit of trouble with integrity. We sure hope NYNEX guards our communications better than they

NYNEX Recycles

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how to listen in

do with the field of hacking, phreaking, and computer security. Without getting technical, the well as being an avid telephone phreak and in the surveillance and countermeasures field as answer is simply "everything". As a professional book could be written on this fascinating and great importance of surveillance to the serious hacker or phreaker, nor will I attempt to delve into complements my explorations in hacking ana professional line of work in surveillance greatly question might arise as to what surveillance has to important topic. While reading this article, the the many legalities regarding this field, as a whole This article relates to the field of surveittance.

I will not digress into an explanation as to the network traveler", I have found that my

general public. There are many more advanced methods developed and utilized by federal agencies listing of the many devices that are available to the The following information is only a partial

innocent Americans with one sole purpose, and that is to spy upon Shotgun Microphones: A shotgun microphone Long Range Listening Devices

A top of the line model can pick up ordinary voices from 3/4 of a mile away. the tube being picked up. The microphone is connected to a powerful handheld amplifier that consists of a long tube either of metal or plastic with a length of 12 to 36 inches. One end of the The shotgun microphone is extremely directional low frequency sounds such as wind and vibrations usually contains a low pass audio filter to cut out super-sensitive microphone. The microphone is tube is open while the other end consists of a surrounded by a damper to eliminate vibrations of

picks up more background noise than a shotgun microphone would, however the range is over one mile away. As a note, the pattern of pickup is much wider with a parabolic dish so it parabolic dish can pick up ordinary voices from and is sent to an amplifier with a low pass audio filter to eliminate wind noise. A top of the line an inch above the reflector dish. This sound is dish focuses sound waves onto a center focal point or plastic with a diameter of 12 to 32 inches. The microphone consists of a "dish" composed of metal picked up by an extremely sensitive microphone Parabolic Microphones: A parabolic

systems utilize multiple laser and/or microwave beams to cancel out noise caused by wind. In addition, mylar reflectors are utilized. These reflectors are an inch wide and allow an increased complex device that picks audio by demodulating the interference patterns in a laser or microwave reception range. range of 60 feet while top of the line units can pick up audio from over 500 feet away. High end subjects under surveillance. Low end units have a circuit demodulates the collected light and amplifies the audio producing the voices of the light bounced off the window and an electronic the receiving unit captures the reflection from the modulates voices onto a radio wave. A collector on much in the same manner that a transmitter As the glass vibrates, it modulates the laser beam such as a window. Whenever someone talks, the laser. The laser beam is aimed at a piece of glass beam. A simple system consists of a 15 milliwatt audio waves vibrate the window a minute amount remarkable and

Through-Wall Listening Devices

unit. Contact microphones can clearly pick up a voice through up to 12 inches of concrete or 3 inches of solid wood. handheld amplifier either as an integral or separate modulated by vibrations caused by audio. The contact microphone is coupled to a powerful material that produces an electric current that is It usually consists of a piece of piezoelectric sensitive microphone utilizing a unique principal that listens for vibrations rather than sound waves. Contact Microphones: A contact mike is a

into a powerful handheld amplifier. picks up resonations from the wall very clearly. The audio signal from the microphone is then fed microphone, and is coupled to a 2 to 12 inch metal spike. This metal spike is driven into the wall and consists of a supersensitive crystal or electret Spike Microphones: A spike microphone

sensitive microphone on one end of the tube. The electric signal from the microphone is then amplified by a powerful handheld amplifier. through an air duct, etc. and picks up sounds coming from directly in front of it. The sound resonates inside the small diameter tube and is consists of a small 2 to 12 inch hollow metal tube approximately 1/8th of an inch in diameter. The tube microphone is placed into a hole in the wall or amplified by resonation. The audio then reaches a Tube Microphones: A tube microphone

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Hardwired Room Microphones

surveillance listening post set-up room, and an adjacent room contains the operations. Typically, one hotel room is used as the technique in hotels when engaged in sting a wired remote microphone. Police often use this "bug" is impossible, impractical, or unnecessary. In certain situations it may only be necessary to use Occasionally the placement of a transmitter aka

increase the microphone's sensitivity. technique simply consists of a miniature microphone hidden about the target's room. This amplifier is used to boost the audio signal, and feet from the listening post, a miniature in-line wall. When the microphone is to be placed over 50 surveillance room via an air duct or a hole in the microphone is then wired into the adjacent Microphone with In-line Amplifier: This

and can monitor all sound within the target room connected to a pair of alarm or telephone wires technique similar to the above method, only a pre-existing wire is utilized so as to avoid detection The listening post simply taps into the wire pair intercom wire, or an alarm sensor element, and is splice block, modular phone jack, coaxial cable Usually Hidden Wire-Line Microphone: This is a clever an electret microphone is hidden inside a

undetected indefinitely. A fine wire laying tool is used to spool the wire, as it is layed. This wire can be placed into cracks in the floorboard and under This eliminates any RF emission from the wire, making it extremely difficult to detect. kits utilize a three wire system, where two of the wires are intertwined and the third is run alongside. carpet, as well as behind moldings. After laying, a small amount of silicone or beeswax is used to hold the fine wires in place. Advanced fine wire run throughout a room or house and remain It utilizes ultra-thin coated wires, similar to magnetic winding wire. This wire can be layed and that was extensively used by government agencies advanced technique of hardwiring a microphone Fine Wire Laying Kits: This is an old but very

bypassing or shorting out the hang-up switch on a Hookswitch Bypass: This is an old but very effective technique to monitor room audio by simply tapping into the subject's telephone wire hook". The room audio can then be monitored telephone receiver making the phone "hot-onà

could be placed inside a modular phone jack, or perhaps connected somewhere along the line in the the room audio. A simple electret microphone similar to the hidden wire-line technique. Only the telephone equipment is used to hide and transmit Telephone Line Microphone: This method is

> then taps into the subject's wire pair. A specialized audio filter is then used to strip off the dial tone. target's room, picking up all of the room sounds, when the telephone is not in use. The listening post

discussed later in this article interference, and there are much better methods coaxial cable. This method is subject consists of a microphone placed onto a television Coaxial Cable Microphone: This device

Transmitters aka "Bugs"

equipment is also the subject of the most Transmitters, often referred to as "bugs" or, when worn on the body, as "wires", are perhaps the media and Hollywood. Bugs come in a variety misinformation and exaggeration created by the most commonly known form of surveillance. This

solid wood." concrete or 3 inches of through up to 12 inches of can clearly pick up a voice Contact microphones

pens, calculators, watches, beepers, lighters, etc. be carried on your person concealed in fountain telephone jacks and electrical outlets, and can also "Bugs" are often pre-packaged in various innocuous household items such as RJ-11 more convenient, it leaves the bugged conversations open to accidental interception. smaller than your pinky fingernail. The greatest falsity created by Hollywood is that bugs can range, the better. While a greater range is certainly Typically, bugs can transmit between 75 and 2000 feet. Another misconception is that the greater the bugs transmit on the order of feet, not miles transmit at a range of miles. This is entirely false misconception is that the greater the the size of a beeper to slightly

stations. If the signal from the bug is too weak, it will be ignored by the receiver in favor of the This allows the bugs to be tuned on a variety of chosen frequencies. The main problem with band because that frequency can only be picked up on a wide band scanner. FM bugs use a circuit background emissions from commercial radio operating within the FM radio band is the strong called a free-running oscillator for convenience between 10-100mW. High level amateurs will usually want to transmit on the 109-130MHz air range of 88-130MHz, and have a power output of and lawfully use. They operate at a frequency commonly available bugs that amateurs can obtain FM Transmitters: These are the most

> oscillators or are crystal controlled. occasionally used by law-enforcement personnel 130MHz-450MHz. They either have free running and amateurs. They operate at anywhere between VHF Transmitters: VHF transmitters are

bandwidth. As a result of the higher transmission frequencies coupled with a narrow bandwidth, controlled and operate on a very narrow law enforcement personnel use UHF transmitters times further than their free-oscillating anomalies. The transmission range is typically 3-5 by commercial RF background signals and natural these UHF units are free from interference caused 400MHz and 3GHz. UHF units are always crystal These operate at much higher frequencies, between UHF transmitters: Almost all professionals or

internal power source. They are specially designed transmitters that are powered by strong highly-directional RF signals, usually in the microwave to have been invented by the Russians, who technique is extremely high-level and was believed signals. When room audio is present the wafer transmitter will vibrate. This in turn will modulate that is flexible and will be modulated by voice devices is not very far, but they are extremely small, being no larger than the size of your pinky the American Embassy in the USSR developed this type of device and reflected microwave signals, producing the audio which was present in the target's room. This the area. The receiver simply demodulates the the microwave signals that are being beamed into waves, and is highly reflective to microwave consists of a very small special piece of material aimed at a target's area. This type of bug simply strong highly directional microwave RF signal is operates on a principal similar to a laser listener. A device often categorized as a wafer transmitter that fingernail. There is another unique type of listening range. These powerful signals charge up the circuits of the wafer transmitter. The range of these extremely small in size and do not even require an most exotic devices ever designed. They are Wafer Transmitters: Wafer transmitters are the used it to spy on

frequency to drift, making reception somewhat difficult if the signal is weak. In addition, that the signals are untuned and can produce spurious outputs and harmonics, which allow the suffers from three main problems. The first being trequencies bugs. FRO's can be tuned through a great range of running oscillators are always used on lower grade Crystal Controlled vs. Free Oscillating: Free for convenience. This type of circuit

stronger commercial signal. FM bugs are also subject to interference from aircraft. signal. The second problem is the weak power output of the circuit. The signal of an FRO is not maximized for any one frequency. As a result, the harmonics allow the signal to be picked up on alternate frequencies by "ghost" images of the units typically last 5-10 times longer than FRO's. an FRO. In addition, the highly tuned circuit produces no harmonics, spurious emissions, and no circuit very efficient. This higher efficiency allows however, are locked on one particular frequency and, as a result, apply all of their energy to a very resulting in a shorter operating lifetime and a higher operating current. Crystal controlled units, distance. The power supplies of crystal controlled frequency drift, allowing a much greater receiving a greater power output per size ratio compared to narrow bandwidth, making the crystal controlled circuit is not as efficient and uses more power power output is not as high. And third, an untuned

a transmitter up to anything that runs on house power producing either AC or DC electricity, such as thermostats, intercom wires, alarm wires, and between one day and three weeks, depending upon the efficiency, the power output, and whether the device is free oscillating or crystal controlled. Mains powered devices are powered by anything come pre-packaged into wall outlets or plug adapters. But a clever surveillance expert can wire are of two types, the first being battery powered. Typically, a battery powered device will last anything else you can think of. but batteries. Mains powered transmitters usually Mains vs. Battery Powered: All transmitters

the bug, the transmitter will automatically turn on. Both of the aforementioned techniques use a very receiver on the transmitter. When the signal is given by the listening post, a particular bug will by remote activation or by VOX (a voice actuation circuit). Remote activation utilizes a special the lifetime of battery powered bugs, the transmitter must have the ability to turn itself off accidental interception on a scanner. being discovered by various means, including running constantly it has a much greater chance of detection of the device. If a transmitter is left battery powered devices. That purpose is to prevent power, an actuation circuit serves another purpose and is useful on both mains devices as well as lifetime of up to one month. Aside from conserving circuits. VOX activated trans a voice of sufficient amplitude is present around voice actuation circuit referred to as a VOX. When either turn on or off. A better method is to utilize a when not in use. This is done in one of two ways small amount of current to operate the activation Remote Activation and VOX: In order to extend mitters can have a . A remotery or

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except by using advanced countermeasures equipment. If a bug is not activated, then it cannot be detected by conventional transmitter detectors. source into the room to activate the device, can be Specialized devices such as Non-Linear Junction Detectors, or a simpler device that feeds an audio

using odd modulation techniques that cannot be transmission range due to their very nature. demodulated by an ordinary scanner. These intelligence agencies. Very high-level bugs operate advanced bugs are utilized only by government Frequency Hopping Transmitters: One method also allow for a greater odd

heard is a popping sound for a brief fraction of a second. It takes a specialized multi-crystal, signal multifrequency receiver to receive this type of modern digital wideband receiver would be too slow to lock onto the signal. All that would be makes it nearly impossible to receive the transmission by accident or on purpose. Even if one knew the various frequencies that this bug to rapidly alter the frequency at a preset rate. This developed to prevent accidental interception or alters the frequency at such a rapid rate that a audio. The reason is that the frequency hopper operated on, it would be impossible to hear any discovery of a bug by a countermeasures expert is

needed to decrypt the signal. would be unintelligible. A special receiver is anyone were to intercept a coded signal the speech as utilizing much more sophisticated methods. If transmitted, using various methods including the transmitters encrypt the audio signal before it is very simple frequency inversion technique, as well Scrambled Transmitters: Scrambled

Spread Spectrum Transmitters: Spread spectrum transmission is a fairly sophisticated method of preventing interception of the signal. transmissions from this type of bug. ultra-wideband receiver is needed to pick up each picking up a separate band of audio. A special need several receivers operating simultaneously audio. In order to hear the bug's signal one would signal with a wideband receiver, they would hear only an extremely small portion of the transmitted bandwidth. If anyone were to intercept the bugs The RF signal is transmitted on an extremely wide

signals from this type of bug can be picked up on high-end scanners which have a wide band FM operates on the spread spectrum transmitter, this type of device Wideband Transmitters: Similar in operation to a slightly smaller bandwidth. The

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used in conjunction with a standard bug detector VOX activated bug is extremely hard to detect

Advanced Modulation Techniques: Very

decoder to demodulate them. television transmissions. You cannot see closed caption for the hearing impaired on This music is transmitted by a regular radio station, on their subcarrier signal. Another example is the and can transmit a much stronger signal. An example of a subcarrier signal is elevator music. strength. As a result, the batteries on this type of device usually do not last very long. Most subcarrier bugs are "mains" operated, meaning they operate using household A.C. power, Using only about 10 percent as strong as the main parent signal. Meaning that it requires a great deal of the hidden subcarrier signal. This makes the or device connected to a receiver to "strip away" caption words because it takes a special subcarrier utility power, the device has an infinite lifetime electric power to transmit a signal of sufficient ordinary persons. One of the problems with sub-carriers is that of inefficiency. The subcarrier is transmission secure from being received by transmitters use an advanced transmission technique to prevent accidental reception and technique to prevent accidental reception and tector of the RF signal. A subcarrier is a type of with a standard receiver. It takes a special receiver frequency. One cannot receive a subcarrier signal hidden signal that is modulated piggy-back style on a regular radio signal, both operating on the same Transmitters:

device works by picking up room audio through a microphone. The signal from the microphone is then modulated by a low frequency circuit which difference is that the signal is not transmitted via radio waves, but rather through a wire pair. A devices are the newer wireless telephones 100-200kHz. A common example of carrier current produces a carrier current signal at approximately carrier current signal by simply tapping into a wire like with wired microphones. A carrier current person cannot accidentally intercept or detect a

Narrow Band Transmitters: Narrow band transmitters have a smaller bandwidth than ordinary RF transmissions. The signal from this type of bug can be picked up on high-end receivers with a narrow band FM (NFM) mode

form of bug that transmits the signal over an extremely small bandwidth. A special ultra-narrow band receiver is needed to demodulate the audic

Carrier Current Devices

Carrier current devices are a combination of technologies. They are a cross between wired microphones and subcarrier transmitters. The only

Sliver Band Transmitters: This is an advanced

sort of device

type of carrier current device is usually pre-packaged inside of modular phone jacks, and then you simply swap the old jack for the new one of carrier current device current devices also can be purchased as separate during the installation process. Telco carrier Telephone Line Carrier Current Device: This

pick up sounds and then transmits the audio down a set of wires. This device consists of a length of perhaps the most ingenious method ever invented clips wired-line method which utilizes a microphone to for intercepting room audio. Unlike the hidden xial wire 2-6 feet in length which contains a Piezoelectric Coaxial Microphone: This is

size of a beeper to slightly smaller than your pinky of sizes ranging from the fingernail." Bugs come in a variety

detection by even the greatest TSCM experts, because very few people know of this method easily intercepted, this method will escape the "special" wire. Even though the audio is quite cable wire. All one has to do is tap into the coax at any point and the target's room audio can be heard. sensitive to vibrations produced by sounds. When audio vibrations are detected by the piezoelectric An agent simply replaces the pre-existing wire for material, an electric audio signal is sent down the layer of piezoelectric shielding which

into the electric socket and use the pre-existing wiring rather than having wiring run all over the house. A special circuit which can demodulate the receiver with a low frequency probe can detect this are powered by the mains. Only a sophisticated Carrier current devices require no batteries, as they low frequency signal is used as the receiver

wall outlets. All that is necessary is to replace the old wall socket for the "modified" wall socket. The transformer. This is by far the most common form along the powerline, but usually it has to be on the receiver can occasionally be placed at any point types of devices are often pre-packaged inside of wall outlets and are clipped to the powerline. These carrier current devices are usually placed inside of Powerline Carrier Current Device: Powerline side of the utility company power

units that are approximately 1/2 inch in diameter and are clipped onto the phone line with alligator

popular surveillance devices of the past. They are not as useful today, because of the switchover to the destination line had not answered the phone.

Hook-Switch Bypass: This is one of the most ESS. The "hot-on-hook" technique involved

this limit, mainly by having a circuit that answers the phone by itself. You can create a simple hoton-hook device by placing a microphone on the placing a microphone on the target's telephone line, or shorting out the hangup switch of a phone so that it picked up room audio even when the pairs together until the destination line is answered. Modern infinity devices have found ways around target's line until the target answers. This is because ESS never actually connects the two line device one would call the target's house and enter a touch tone code before the first or second ring. phone was hung up, and that room audio would be sent down the line. To activate a hot-on-hook under ESS, a device cannot be activated on the However this type is defunct, because nowadays the line without ever being charged for the call the line. The surveillance technician could listen to stop the ringing, and activate the microphone, which would send the target's room audio down That code would activate a circuit, which would because the phone was never actually answered

(until now!) .

Infinity Transmitters

transmitter can work at an infinite distance. The design of this device has varied greatly over the years with the advancement of telephones. The device is placed inside of a telephone jack or a sounds within a particular room. Note: If a person does not enter the correct access code then the device will not activate and calls will go through as device answers the phone. You temporarily activate the device using a touch tone code. This telephone itself, and is connected in series to the line. To operate the device, you call the target's house and before the phone rings once, the infinity This is one of the most diverse and useful pieces of surveillance equipment. It is a room systems, telephone lines possessed an audio path between the calling and destination points even if normal. Infinity transmitters lost a bit of popularity after telephone companies switched to electronic code is correct the device will be activated and an audio path is established. You will hear all of the puts the device in a stand-by mode. You then have a brief amount of time to enter an access code your telephone line. Unlike a bug that can only receive the signal at a finite distance, the infinity switching systems. Under crossbar switching audio monitoring device designed to operate on consisting of two or three touch tone digits. If the

the device described above. You can have multiple device can be switched on at any time during the phone, each using a different activation code. Each infinity devices in one house connected to each

complex to discuss in detail in this brief article.

Loop Extenders: These devices are Telephone Taps and Transmitters

infinity monitoring system

controlled. This unit is an all-in-one surveillance

7

bridges two lines together by a capacitively coupled circuit techniques. A slave is generally any device that utilize various multiple line and dial-out advanced models of the infinity transmitters. They slave unit and loop extenders (LE's) are more

ordered for surveillance purposes target's line is bridged at some point along the telephone line, such as an entrance bridge, 99 simple connection between two wire pairs. The cabinet to a pre-existing or leased line specifically block, junction or splice box, or a cross-connect-Multi Line Dial-Out Slave Infinity Device: This Dual Line Bridge Slave: A dual line bridge is a

is placed within the target's premises and is either built into the telephone or is hidden in a phone jack. The device is actuated by voices through a VOX circuit, which dials out to the listening post unit is a slightly more advanced type of device that utilizes two phone lines that are bridged across the line pairs at some point. There are two versions of this type of device. The first is a room monitor that record the target's phone calls. enables the surveillance expert to monitor and out on another line to the listening post, which call is received, this slave unit automatically dials usually owned or leased by the surveillance expert. When the target attempts to use his telephone or a The target's line pair is bridged onto another line such as at 99 blocks, entrance bridges, splice The second is a telephone monitoring device which can be placed at any point along the telephone line, on a second line not used or owned by the target boxes, junction boxes, and cross-connect-cabinets.

third more advanced type of unit is simply a Typically the dial out function is for telephone, and Units may be a combination of dial out or dial in. combination of the above two that incorporates voice infinity and telephone infinity transmission. Advanced Dial-Out Slave Infinity Device: A

infinity device that utilizes multiple telephone lines as well as radio receivers, and a built in tape recording unit, which is all microprocessor the most advanced and diverse type of slave the dial in function is for room monitoring. Remote Listening Post Infinity Device: This is

line with a high impedance telephone tap.

Dial-Up DTMF Activated: This is similar to shone line and listening at some point down the

Modular telephone taps, often referred to as a Slaves and Loop Extenders

This type of tap is extremely simple and can be performed by even an anateur. If a permanent tap is left in place by running a wire to the listening post, and is too close to the target's residence or office, it could be detected by physical search or with advanced equipment such as TDR's or phone performed. analyzers, if countermeasures sweeps were can tap into a phone line at virtually any place along the line including entrance bridges, 99 lineman's handset as a beige box. An individual blocks, junction boxes, and cross-connect-cabinets referred to as a butt set). A phreak might refer to a alligator clips, or a lineman's handset (often headphones with the jack cut off and replaced with conversations. All that is needed is a pair of mono and oldest form of monitoring telephone commonly referred to as wiretapping, is the easies Hardwired Tap: A hardwire tap, which is

virtually the same type of hardwire tap as above, however no direct connection is actually made to search could find the tap. permanent induction tap is left in place too close to the target's residence or office, a thorough physical even the most advanced equipment could detect actual electrical contact is made during the tap, not around the telephone wire and the emanations from the wire are picked up by the probe. Since no the line. An inductive probe is simply clipped such devices. As with the hardwire tap, if a Inductive Coupled Line Pick Up: This is

telephone conversation is taking place switch which turns the device on only when a occasionally incorporate an automatic activation standard room bugs. Series transmitters telephone transmitters is virtually the same as for however its virtually infinite lifetime is an advantage. The frequency and power output of with series transmitters as it is with parallels. never requires batteries because it draws its power from the phone line itself. The range is not as great conversations instead of room audio. This type of device is connected in series to the phone line and bugging type of device that monitors phone Series Transmitter: A series transmitter is a

the transmitter to be simply clipped on without breaking any connections. The power output of parallel telephone transmitters is a bit higher than with series devices usually by 20-50 milliwatts. hooks to the phone lines in parallel, which enables Parallel Transmitter: A parallel transmitter

> power source, usually a 1.5-12 volt battery. The frequencies are identical to that of series telephone taps and room bugs. The lifetime -f.: a month extends the lifetime of the tap from three weeks to being monitored is in use. This additional is finite and can only operate constantly for 2-5 days. Higher quality models almost always will turn the device on only when the telephone incorporate an automatic activation circuit which

Advanced Transmitters: This advanced type of tap is a combination of series and parallel circuits and bridging. When the phone is not in use the battery. The device contains an automatic activation circuit and when the phone is being output of a series device while having a virtually unlimited battery lifetime similar to a parallel parallel circuit "trickle charges" a rechargeable device. contained battery. This device yields the higher RF series circuit activates and transmits using the self monitored by lifting the handset from the base, the

Super Miniature Tape Recorders

useful devices for surveillance purposes. They have many uses - primarily recording Recording devices vary greatly in size, recording quality, as well as other important features. Top of several thousand dollars. specifically for surveillance purposes can cost the line models designed and manufactured law or simply to alert law enforcement personnel which can be either used as evidence in a court of conversations pertaining to illegal or civil matters, Super miniature tape recorders are extremely

and serve no purpose on a recorder. In order to play back the recorded media, a separate speaker recorders never have built in speakers, since speakers take up a considerable amount of space features are designed into these super small recorders in order to save space. High-level designed specifically for surveillance are generally much smaller than tape recorders available for and amplifier playback unit is used. surveillance recorders. Only the most important on consumer recorders are not necessary on covert consumer purposes. Many of the features available Size Specifications: Super-miniature recorders Electronic Shut Off: Surveillance recorders

almost always incorporate electronic shut off. The mechanical shut off buttons are too bulky, and more importantly make too much noise when the tape automatically is shut off. Should a the subject being recorded very suspicious the loud click of the mechanical button could make surveillance recorder ever shut off automatically,

nas a new number:

(516) 473-2<u>626</u>

circuit Silenced Motors: In typical consumer micro-miniature recorders, the tape drive motors can produce a sufficient amount of unwanted noise. Surveillance recorders contain extremely quiet precaution must be made to avoid detection and suspicion. If the person under surveillance is an perhaps the most advanced feature of surveillance recorders. When recording a subject, every motors that cannot be heard even in the quietest Altered Bias Oscillator Frequency: This is

expert in surveillance or if he is particularly the bias-oscillator frequency must contain special audio compression circuits to compensate for the A true surveillance recorder will alter its bias detect a tape recorder from up to several feet away recorder within a certain range. These devices can recorders. This anti-bugging device detects the emanations from the bias-oscillator of a tape suspicious, then the subject could use a rendering it undetectable. Tape recorders that alter the aforementioned countermeasures device oscillator frequency so that it cannot be detected by countersurveillance device that detects tape

is for time coding or reference signals. Multitrack Recording: High-end recorders will usually have several tracks for recording. Two tracks are usually for the stereo signal and the third effects of the altered circuit

Rather than using longer tapes, the recording speed is slowed down. This results in a bit of distortion, so extended play recorders incorporate are required to record for extended periods of time compensation circuitry. Extended Play: Surveillance recorders often

the line model is the Nagra JBR, which contains all of the advanced features described. Its dimensions manufacturing surveillance recorders. Their top are 110x62x20mm and it weighs 143 grams.

The National RNZ 36 is one of the smallest Nagra Magnetic Recorders Inc. is the leader in

making it nearly as small as a credit card. security situations. This unit has a 3 hour extended several advanced features necessary in high units ever produced, however it does not contain recording time. Its dimensions are 85x54x14mm he 2600 voice bbs

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Vorrisome Questions

is going to: 1) have his phone records meticultously checked over from way far back to see where he goes and who he calls, 2) have his travel records checked by tracing credit card purchases, 3) have his email monitored, 4) have a case constructed to charge him with this mean that this person whose home phone was called billed to that number and security is being told and "you know what I'm talking about" (from the operator) does machine using a box and the operator figures it out, calls them at the payphone and tells them that the call is being

like that together.

Defeating Call Return

simple to program in the number. Using your DTMF phone, type in 72#, then wait for the second dial tone and

2600:

need to know a few things about red boxes.

reasone calls their home to check their answering

a crime. 5) have the police at his door.

I am also wondering: if a red box is used at a payphone, can all the outgoing numbers that the payphone called be accessed? So if there was a payphone in Callifornia that this person used to call his home, would that call appear on a log somewhere and would the phone cops be able to call up on a computer all the timese, your home phone was called and check the number that was

Your scenario is a few years ahead of its time. To be honest, nobody really knows how for the phone company and the authorities can and will go in such cases. In the case you mention, the operation would have had to be listening in an the call to know that it was the person's home phone. And that is a far greater offense than red bossing. Can outgoing numbers at a payphone to how the property of the property of the property of the doctors of the phone has that capability. But there would be no way to distinguish between calls made with real bosses and calls made with real coins. Unless you stoy on the phone for twelve hours long distance and there's only thirty cents in the phone when the telor comes calling. Even the phone company is capable of piecing a puzzle like that toosether.

Dear 2600:

I have some advice for the many would-be war I diales out there. In the San Francisco and greater Bay Area they 'en istalled that annoying Call Return function onto the system. Whenever I'm scanning I always get poople calling back in the middle of the night screwing up my scan. I've found an easy way to get rid of that problem use call forwarding. It's easy, rather cheap, and legal. People call and get the number you've forwarded them to, even if the number you are calling from its busy. Usually I go and find a nice payphone in a mall or something, write down the number, and then set that up was the number to be forwarded to. In San Francisco it's

far as tricks go, but most

Another easy thing to do is scan at 300 baud with a fax modern. You catch the faxes and the normal carriers and sometimes test tones.

Some parts of the country activate call forwarding with *72. We we found different results from forwarding lines that get *96 (Call Return) sent back to them. Sometimes it doesn't forward at all. Other times, the caller simply gets a reorder. Your scenario is the best, though, it's very easy to convince someone that another person has been calling them. Emperor

Dear 2600: Info

your calling area, write to them at Motorola, 600 North U.S. Highway #45, Room DC266, Libertyville, IL 60048. They will In reply to DY from Weston, ONT in the Winter 93-94 issue: The Motorola guide (item #68-093-00a60) can be obtained by calling (800) 331-6456. If that number cannot be reached from happily send you the guide. If you want, just send them a personal check and tell them what you want. They never asked me any

Quinton McHale

Dear 2600:
The Fax on demand number for Southwestern bell internal news is 314-4447575 with an info number at 314-331-0160. W

Make sure and read about MEL on page 13.

Dear 2600:

I trust you have this phone number in your vast files: 212-395-2200. It's NYNEX's employee newswire. It's updated daily with a mix of interesting and boring telephone related news stories. I believe it's toll-fine from within the LATA.

Norm D'Plume No Fixed Address

More Questions

Dear

I just finished reading my first copy of your magazine. I have been hacking around a bit since I just of my first 300 baud modern for my T199 4A back in 1884. Unfortunately I did not know of your magazine at the time.

in upstate New York in 1990 we used a very simple method to get free long distance calls. At a posyphone in the 518 area code we simply diaded 10000 before the call and they were all free. This worked for a few months and then I guess they caught on. Why did it work and might it work again? I have two questions. Firstly, when I went to college

Secondly in your current issue you have an article on

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any info you may have and I compliment you on a great magazine. software/hardware to decode Cellular Phone traffic. Is there any comparable box/software for a pocket pager/beeper? I know that the system is smilar in fact rever simpler since it is only one way. I would appreciate the state of the state

was owned by AT&T By dailing this code hofore a cell, you were routed through AT&T as if you had dialed normally. Many phone programmers missed blocking this code for some reason, possibly because it doesn't look like a code. But dail, 1000 no larger works at all from our area. There is indeed software to decode pager traffic. We suggest checking out the Universal M-400 Reader or the Universal M-1200 Decoder Card. Each is capable of decoding both POCSAG and GOLAY formats, plus all kinds of other things. Each costs about \$400. You can contact Universal Radio at 800-431-3939 or (614) 866-4267. 10000 is a carrier access code. Last we checked, it

Privacy Violation

I got a piece of direct mail from AT&T today which has a check you can eash if you switch your long distance carrier to them. The letter goes on to explain how much better they are and tells about TrueVoice and some other lame features. Dear 2600:

several times and got lots of different natwers depending on who I was taking with. Variations included: well, you must have had some dealings with AT&T in the past. Perhaps you accepted a collect call from someone using AT&T, etc. My beheckbook shows I have never written a check to AT&T and I'm certain I have never done any business with them at all. Other phone companies suggested that they bought my name and number from a mailing list of a department store or such where I used my credit card... af first I dought hits might be possible, but AT&T claims they do not purchase outside lists. Besides the phone number also had the PIN attached, My favoritie answer from an AT&T representative was that they own only about a year now. I have two phone lines, both with Working Assets and both unpublished. I probably shouldn't be making so much of this but they printed, not my main number but my second number on the check, which has no phone attached to it, just an answering machine from which I run a sort of phone game/art project - all callers are anonymous. My concern, if they can find my name and address with the phone number, then perhaps any number of the sicke callers who play the above some and therefore its little as in unique sortified. phone game and threaten to kill me in various explicit ways can also?! Besides, there is a principle involved here... something isn't right. How is AT&T coming up with this info? I called the 800 number in the letter giving out this info. My local phone company claims they won't give it out unless there was some 3rd party bill that digit PIN) appear on this check. I talked to my long distance carrier (Working Assets). They certainly aren't could not be collected. I have lived at the said address for and unpublished phone number (along with the internal 3 The short of it: I was amazed that my name, address

all the phone numbers prior to divestiture and they lease the numbers to other phone companies. My local company is New England Telephone (part of the NYNEX family), so that theory sounds like a pile of \$5.90 to me (we are not allowed to swear here, the system monitors us).

mall piece and awa was recommended in the mall percent plat want to know whose list I'm on, how I got there, and how I can get off. I can understand AT&T's reluctance to spend a lot of time looking into the matter since they aren't making any money in the process...but since they were nice enough to add me to their mailing list I think they should be nice enough to explain how I got there. "Marsha" the executive complaint person.... She took down as much info as we could salvage from the direct since they aren't making any money in the process... but since they were nice enough to add me to their mailing mail piece and said she would look into it Anyway, after tying up AT&T's personnel and 800 mber for over an hour, I finally got to speak to

(Trying To Be) Anonymous
Based on what you told us, it appears the culprit is
NYMEX. You mentioned a three-digit number that also
appeared. This number is used by NYNEX to verify your identity so you can change or disconnect your service by computer. No other company would have this number. Unless, of course, they'd been in touch with NINEX.

Meetings

Dear 2000.

I love your suif guys! The little article about the Digital locks really helped me alot! See, my dad owns a building that uses those, and I finally convinced him they aren't as safe as hee, and I finally convinced him they aren't as safe as he thought! By the way, is then that they aren't as safe as he thought and they aren't as safe as he tought of the way, is then a phone number or e-mail address, where t could contact the safe and the safe a really like to start attending.. someone who attends the Kansas City 2600 meetings? I'd

simply show up at the right place and time We don't give out phone numbers but we suggest you Frank

Reader Reunion

Dear 2600:

Recently, I was visiting an alternative clothing, book, magazine and "other" store located in the near north region of Chicago, and happened upon the Spring edition of 2600.

Many, many, many years ago a friend of mine who is a competer via would share issues of 2600 with me that appeared to be hand-typed and servoced. I enjoyed reading 2600 a great deal back then -1 always would find something of innerest and things that would make me pause to think (like Creative Computing and Dr. Dobb's Journal did before they sold out).

Well, I'm here to tell you that although 2600 has brushed its test hand combed its hair somewhat, it is the brushed its test hand combed with a mine to tell you that although 2600 has brushed its test hand combed its hair somewhat, it is the same enjoyable and thought provoking magazine that I

Congratulations for surviving all these thank you for keeping your high standards and All the best e years, and d focus!

Mike

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A Strange Number

Dear 2600:

upflash button on my phone and was pressing the hang upflash button on my phone repeatedly while looking up a number in the Yellow Pages and then I let go of the button for about 30 seconds and hen I let go of the said "You have reached code 21 NXX in 215 [area code. I think!" and then repeated it. I read to dail numbers and things like that but to no avail. I m able to get that recording by the same process but I have not found any information on what this nears. Any help you can offer? You've reached the verification number for that area. You are reached the verification number for that area. You are reached the verification number for outling it the number ties are the I take to what you flathed your switchhook. Three flathest equals the number ties etc. Let us know what the number is - we've been looking for those.

Dear 2600:

in a day. I would just like a little light shed on this subject - I feel that we have certain constitutional rights that may pay for. Is there a law against randomly dialing numbers just for the hell of it? How do they now I'm not a the right to do this? I thought I was allowed to make unlimited phone calls from my home. That is the service I telemarketer or a salesman? Businesses make lots of calls

When I was younger, a common phone trick was to dial the number 660-6606 in our area code, 404. When the line answered, it gave a strange series of DTM fones that kind of played a song. Then, I thought nothing of it. A few weeks ago, I remembered about the number and dialed it again only to find that it has been doing the same thing for all these years. I got curious, so I programmed a war-games type dialet; and called all 404 numbers with the prefix 666, and every one gave me the same thing. I can't seem to figure this out, so could you please help'l Is in a BellSouth utility for line-testing, or is it nothing? dialing, however, is not. If nobody complains (and there's little reason anyone should - you're only calling each number once), it's likely you'll have no problems. they'd make an exception for hackers. Sequential dialing is very easy for the phone companies to detect. Random there are many states that forbid such activities, particularly when done by telemarketers. It's not likely

Inside Info

I recently acquired your magazine, and I would like to say I enjoyed it. (Volume II, humber?) However, there was a lack of information for the area in which I live, being the San Francisco Bay area. I was wondering if there were any past issues that maybe had some information for my past issues that maybe had some

Getting to the point here, I recently started work in the office of a very high-ranking official in Washington DC. I won't say who, because as you stated in the spring issue, nothing is secret.

Second, the computers I am working on have a section of the drive allocated for the network. When I

Well, some time went by, and last time I tried to call it, it only ings and rings. No answer. So my question is what was it, why was it, and where did it go? Are there more numbers like this?

become jeopardized by the big evil phone companies.

Mr. Asshole phone call you make from home is recorded by the phone company. If they see a pattern of calls this could raise certain 'ted flags' with them. Is this true? Do they have My second issue is law - what are our rights as hackers? A friend of mine brought up the issue that every

First, we should point out that you insisted on signing your letter that way. As for the number you found, it probably was something a company was using so its employees could make local coils to an extended region as well as long distance calls if they had the proper code. The failure to block 976 and 900 numbers was obviously a big oversight. Concerning rendomly dialing numbers, a

Dear 2600.

Dear 2600:

Atlanta, GA
Sounds like a whole lot of touch tones to us.

the west coast where the phone system was ancient. The mall phones were a pushover. I also would like to thank you for helping, me sock revenge against a local BBS with the help of your ANSI bomb! Well. I just began the hacking and phreaking stuff last summer when I bought the issue with the red box. It was a real treat because I lived in a very small town on

up this number you got a connection. It clicked, then gave you a dial tone. From there you could call anywhere you wanted including 976 and 1-900 telephone numbers!

Although it would ask for a security code when you tried to call long distance, you could call numbers which to call long distance, you could call numbers which

information for my area. For example, "Life under GTDS" doesn't apply to Pac Bell's system. The second question I have is this. I don't know if this would be such a good idea to publish this in your book. I recently found a telephone number. (510) 210-7100. When you dialed up this number works.

Two things: First, to stand up for the big guys, the e-mail Is read. Not by the actual people, except in special cases. The mail is received and filed just like regular mail and it is given with other letters of the similar subject to one of the L.A.'s (Legislative Assistants). The L.A. then carefully reads the mail, usually responds to it, deals with the issue if it is a request, and/or sums up the general opinion over the issue and presents it to the official.

type "cd\" or anything like that, it won't acknowledge. It won't recognize any DOS commands on the allocated drive, but it will on the A: drive (5 114). How did they do this? Oh, last thing - I am eager to learn more about this

open with no security and such an easy number to remember. Someone, if they wanted to, could call all kinds of 1-900 services for free, some, by the way, cost over \$50 per call! Not that I would do this of course. It was amazing that someone, or some company, would be so stupid as to have this number be completely

it a cheap long distance service?

normally cost money through Pacific Bell but aren't far enough to go through a long distance carrier. This completely baffled me. Why would this number exist - is

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you persevere, it will be worth the effort. Good luck.
Strange Situation Regarding learning, apart from reading, the best way to learn is to make contact with others and share information. This can be a lot harder than it sounds but if It sounds as if the computer you're on is partitioned into different sections. We'd need to know more about the non-DOS part in order to tell you what you can do non-DOS part in order to tell you what you can do

Dear 2600:

2 pair with one line on one pair and the other on the other. I never got around to switching the jack because I didn't care whether I had a phone in my room. Now here's the Here's the deal: We have two phone lines in our apartment. We had one active for a while and then my roomnate got the second line turned on. After she moved out we turned it off. There's a jack in my room which I had checked before and it was my roommate's so I left it alone. Really. But the apartment was wired with standard

I got my new PC and wanted to hook up my modem. I had forgotten if the phone jack in my room was out line or the urned off line. So I plagged in the phone line and I tried dialing. It worked fine. So whenever I dialed out I would warm my roommate not to use the phone. One might I was in my coum and was logged onto my internet account. I spaced out and picked up the cordless and unreed it on. I heard my roommate talking on the phone and started freaking out. I went over to my PC, did an Is, a more and some other commands to confirm that I was a more and some other commands to confirm that I was indeed logged on. I condin't figure it out. Being a little backed watched to my conficient. weird part.

It turns out, I have this line I can dial out on and we never get a bill. This has been going on for about three months. I have called BBS's in Europe, Mexico, and all careful to never dial 900 lines

stuff because it really is a thrill when you log in on something you've never been able to before, or find a telephone number that does interesting things—you're

and hack and phreak away down at my keyboard on a charming night like tonight long distance. I'd just like to know how these things are done and why they work. Just stuff like that, so I can sit Where can I learn about this? I'm not in it to rip off someone's credit account or log in 2500 minutes of free

Regarding Randy815@Dallas' letter in your spring issue, sending your mag to congressmen is useless. The most annoying thing they get in the mail is magazines because no one has time to read them. Honestly. The best way to get your point across to a congressman is to write a letter and attach a photocopy of the specific article in the issue you want to address. Then send it only to your congressman. If you send it to all of them, they usually don't care because you aren't aconstituent of their district and they throw it out. They usually only make the election. bad decisions could hurt them when it comes time for redecisions in the best interest of their own districts because

King of Spam

Dear 2600. Replies to Readers

Today read the Summer 1994 issue of your great magazine and saw a few things that interested me. I wanted to reply to some of the letters.

In response to The Roadkill in his letter "Tyranny in Church". I have the perfect utility for you. Forget the others that were posted in "Monttoning Keystrokes" on page 381! have a TSR that will not only record all the keystrokes in memory. but it also has other features (that some lazy people like me would find useful) like file entryption, a text editor, cut and paste, and some DOS functions. I found it in one of my. Government eacher's old computers, its called Keysworks and the filename is K.E.K. If you have access to internet mail, I am at 15660/@erf.gs.marioopa-edi. mail me and I vall its end you a unencoded copy of K.E.K. I don't have FTP right now but if some one want to not if from me and not in one. but if someone wants to get it from me and put it on a site, that would be cool.

Headquarters stores in their areas as well so other stores might carry these books also. As for JB, I don't think they have Spy Headquarters stores in Belgium.

I was at the store where I usually buy 2600 today and I also saw the letter "Secrets of a Super Hacker". I have found a store in my area called "Spy Headquarters," and they carried a large selection of "Hacker" and "Anarchy" books. Most were published by Loompanics, I have heard from people on IRC that they have Spy have heard from people on IRC that they have Spy

waing. This is probably because the line does not have it. It was something I wondered about back when I thought I was using our regular line. It worked from the kitchen, but when I tried it in my room I got an error because I figure that the billing would draw attention. I only use the line for data because I am too lazy to wire up a phone, although I should. Another thing I noticed is that I can't disable call

what phone number I am using either.

Sometimes I sit at my PC logged onto a long distance BBS, look over at my TV, where the cable company didn't shut off the cable in a room where I think I get power for free from a neighboring apartment and I shake my head and wonder how long this can last. message from the phone company.

Can you tell me anything about this? Can I get a huge bill one day from the phone company and be forced to pay it? Are there any other possibilities? I have no idea

Feasting on technology droppings

You called boards all over the planet but not 900 numbers because you dish't want to draw attention to yourself? Odds are the people you've been hipping off (most likely want frendly neighbors powering vant PC and modern) gao a plone bill that sent them through the roof In fact, it wouldn't surprise as if you've met them by now. Luckly, you can blame the phone company since they did wite it that way. This kind of thing hippens far more often than people realize. But you will get stack with the bill if and when they figure it out. To find out what your phone number is, did 10732-1-404-988-9664.

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anywhere else! printer wrote over the creases since there were many crooked columns. Can you guys send me a nicer copy? The one I have is barely readable and I can't find 2600 I started looking for a nice clean non-folded up and non-crumbled up copy of 2600. To my surprise, all of them had been mangled up in some way! And it looked like the

ISHCORS (516-474-2677). It could even spell 516-IRIBOPS (whichever makes you laugh more). When I saw the thing on page 45.1 had to reply.

Dear 2600: replacement or a refund. And let us know if issues in that

I got my Summer edition pretty late but loved every page! I had a couple of comments about two of your letters.

In "A Busy Connection" by Reuben (Page 24), he brings up the usage of the XXX-9970 numbers on NYNEX Well, you said to let you know about any other parts of the country with this. From the 913 AC, I got something I tried three local perfects 539. 317, and 776, 539 and 537 both gave me the described busy tone and the clicks - but the T70 perfix mang three times, gave the "thank you" bitch that comes on when you call from a new toward with 144-157. The property of the property pay phone (which I didn't) and then beeped four DTMF tones at me (which I was unable to decipied that I haven't had time to build the one on page 32).

Second, I'd like to make a comment in reply to scirl's article (page 29) about there being too many lames in his area Lighten up, man, we were all lame at one time or another. Hell, I still do lame things from time to time. I think it's just a stage that everybody has to go

I admit it's sometimes hard to deal with all the newbies from AOL on al. 2600 (my kill fife is huge), but I think what you 2600 gays said his the nail on the head. Teach a lame hacker not to be lame once in a while don't be cockey about it - just help, even if it's only giving him a pointer to a FAQ. It takes a little extra time, but it'll be worth it. Just think, there are going to be million of newbies floortien the incurrent is however. millions of newbies flooding the Internet in the next year and they're not going to go away. So try to show them how to do it right, Otherwise, 75 percent of future bandwidth is going to be newbie flame. Sheez, what a

We cannot get through to your \$37 and \$39 exchanges at all. We suspect they're non-working exchanges and ever number in them probably gives you the same thing from re within the orac ode. Regarding the "thank you" lads, you have reached a COCOT. which is why it sounded familian to you. We have yet to hear exactly what she's waiting for you to do or why is she's thunking you.

Page 28

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By the way, your new FAX number spells 516-Da Phigzter

you bought in a store, return it to them and get a We can't replace copies that were mangled at the newsstand. But we do replace defective copies that our subscribers get. If there's a problem with an issue that nagazine that it was legal.

merely says they're protected by law. Get the picture?

by Josh Horan is another easy way to get past AtEase.
Second, FlicGuard cannot be turned off by turning off the extensions with the shift key down! The only back I know for FlicGuard is called "An INIT's Best Friend" fast. and "Airplane" (they work together). They work well and

Mr. Bard claims that AppleShare is hard to hack. Considering that AppleShare is a control panel in the System Folder and is only hackable from a hex editor then yes, I would agree. AppleShare is hard to hack. However if what he ment to say, and by his article I think he ment to say. AppleTalk is hard to hack then I

Mr. Bard suggests that you could write a program to simulate a Mac interface to get user passwords - that is a belluva long way to go about it. A simple cornorl panel placed in the System Folder to capture keystrokes would

work fine. I know of two that have already been written.
Mr. Bard says that you should "make an Alias of his Appleshare, and copy to disk. Then... go back to the computer he used and open the Alias Appleshare." This is pointless, not to mention that it will not work. If you

Dear 2600: Cordless Clarification

upe people's cordless conversations." Both you and I know this is not on Fecheal Law is quite vegue in this matter. "It is a crime under federal law for any person, to wiretap or otherwise microspia a bephave call..." Please inform the reacheship before someone goes of ind tupes a phore all and plays it in public. If there is a loophole to this law that I'm not aware of let me know, the contraction of the reacheship before someone goes of the draws and tupes a phore all and plays it in public. If there is a loophole to this law that I'm not aware of let me know, but I'm fairly certain there is not. I would hate to hear of a naive individual charged with wiretapping after reading in 2600 In your summer 94 issue an article, "Cordless Fun" by NYMPHO said that it was legal to "drive around in your car and In your Summer 94 issue an article, "Cordless Fun"

The article stated correctly that there is no law against manitoring or tuping a corolless phone call - such calls are considered to be enable masswissions, therefore, "wireapping" doesn't apply. They are not protected in one way, Cellular calls, while just us easy to listen in on, are protected by a law that while just us easy to listen in on, are protected by a law that Gladshiem

Dear 2600: Mac Hacks

The letter by Deus, The Black Night, etc. talks about a long way around "AtEase". If the school has Think Pascal or Think C (any Think leats software) just go to the "Transfer" option in the file menu, and open "Finder" in the system folder. A little faster, and you can jump back into AtEase if a teacher shows up. Also "DisEase"

"Airplane" can be found any where, even on AOL! Lastly, "DisEase", "An INIT's Best Friend", and

Xausii

I need to respond to "The Bard" who wrote "High School Mac Hack" that appeared on page 15 of the Winter 93-94 issue. The article is filled with too many inaccuracies to allow me to let it slide by. Dear 2600:

are going back to the same computer, why not just open the original as opposed to the Alias? The Bard says the disk might be locked in which case you could it make an alias anyway. Even if you could, the alias on the floppy can't point to a locked disk. (Oh, you can unlock a disk

If you have access to the target machine as Mr. Bard's previous example required, then just create your own damn account. Go to the Users and Groups Control Panel and create away. Using Norton Utilities to find hidden password flies as Mr. Bard suggests is also useless as the passwords are written in hex inside one of the AppleTalk Control Panels. He would have better luck by selecting it and hitting Command-I.)

or even wimpy ole AtEase, good luck. These are all passable - they just require a little more work and poking around with and each deserve their own article. If your machine has Empower, DiskLock, FileGuard,

Just remember that AppleTalk is a very insecure protocol. It is peer to peer and not really meant for large networks. Most of the stuff in this letter can be found in any Apple Manual that comes with every Macintosh. May I suggest that Mr. Bard find one and read it.

Space Rogue (617) RDT Syndicate

Dear 2600: Sick ATM's

I was in Soho, London one night where I seem to spend most of my nights guzzling coffee, etc. I went to my usual cashpoint (ATM) at a branch of Barclaya Bank. There are two machines side by side. The first was as usual, I stuck my card in, go my cash. I noticed the machine next to me was not all it should be, I assumed at on closer inspection I noticed something odd.

The machine had apparently crashed. It was first it was in "Sorry can't give out your cash!" mode, but

and a promps* "S. After a bit of pissing about I deduced that it was expecting a 4 digit Hex code, followed by "Enter" to allow you to get to the nutry garty of testing the note dispensing mechanism over and over again. Given that I only had a few minutes before I was the deswhere. I had little time to have a stab at the possible 65,536 machine's code is different, maybe it is written on the inside? Keep your eyes pealed next time you're in a bank the screen, used for "Fast Cash", receipt request, whatever. There was a message at the bottom of the screen along the lines of, "Enter engineer clearance code" "Diagnostic" Mode. The screen displayed the letters A thru F aligned to the top 6 of the 8 buttons to the side of and the machine is being filled! combinations, but here's to dreaming. Presumably each

Lowdown on LoJack

Dear 2600:

Reference the letter titled "Cur Tracking" on page 25 of your Summer issue, the author, "Tommy B" doesn't know what he's talking about.

His letter was full of paranoia which - while technically feasible by some tracking systems - will not

just a few miles at best (depending on terrain, etc.). vehicle, so the police will know what to look for while homing in on the signal. The range of this transponder is enforcement computer network (statewide or perhaps NCIC) which will then return with a description of the serial number of the unit (which shows up on the special LoJack receivers/RDF gear some police cars are equipped with). This serial number is then entered into the law work with Lolack. Contrary to what he said, Lolack uses a VHF (173 MHz) frequency, not 900MHz. Once activated, the Lolack units send out a signal giving a

k Teletrac, do use a 900 MHz, spread-spectum radio link, and can be interfaced into things like the vehicle's ignition system (when the police close in, they can request that Teletrac send a signal to the car, having the gignition disabled, in order to prevent a car chase). There is also the capability for two-way voice communications: between the vehicle and Teletrac's regional operations enter - you can manually activate your Teletrac enter - you can manually activate your Teletrac transponder, for example, selecting the "Tow truck" depiction will alert the Teletrac Ops center that you're having a non-emergency problem, and they can then mitiate two-way voice contact with you to get info on the specific problem, which they can then pass to the wrecker service. Now some of the other tracking systems, such as

certain areas, and should prove beneficial to many people. There's a simple way to alleviate Tommy B.'s paranold fears - don't sign up for the service! If Tommy B. is driving around in a Porsche or Lamborghini and his insurance agent "forces" him to get a vehicle tracking insurance agent. sure to keep your cellular phone off, too!). you'd rather keep your whereabouts unknown (but be system installed, either just go with the relatively primitive LoJack system, or use a secondary vehicle when These high-tech systems only provide coverage in

advantages. But Tommy B. should try to have some factual knowledge before he decides to fear something, if Like with most pieces of technology, there can some vulnerabilities or disadvantages as well of misinforming them. for no other reason than to be able to alert people, instead Just because Tommy B. is paranoid, it doesn't

mean that people aren't out to get him! Just the other day, I was watching Tommy's car using a Keyhole satellite I hacked into, and I clearly saw him blow through a red light at 60 mph!

Still More Questions CARTWHEEL

Dear 2600:

I have been a subscriber to your magazine for a few

years. Overall, I have enjoyed your magazine and its many interesting articles! Keep up the good work!

I am, however, confused by the painting on the front cover of the Spring 1994 issue (Volume Eleven Number One). There does not seem to be a theme or meaning to

the painting.

What is the purpose of the space suit? What do Babylon and Middle Island have to do with each other?

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on my phone and I get an intercept saying that the number is not valid. What is the number 17 that is prominent in what appears to be a green highway type of sign? What is the number that is on the sheet of paper behind the head of the person who is emptying the trash can full of passwords? I tried it

And finally, is that supposed to be a birthday cake in the foreground? If so, does it mean that this issue is the

On Piracy

when I was a youth This publication got me started in hacking years ago I think you people have a fabulous operation at 2600.

I'd like to respond to Roberto Verzola's views in his

article "Software Piracy: Another View."

equates copies of programs to units of money.

In my view, software piracy is so vital to the software industry that without it, there would be no hit Roberto takes the point of view as an opposite to the business interests invested in software development. He

beta copy, fifty pirates have access to it via networks and the local BBS. When it its earliest stage, software is very software has no hype.

The many pirates who nab beta copies are interested dependent on word-of-mouth advertising. Unreleased programs like Word or Lotus. Each piece of software gets its start as a beta copy. For every programme: who has a

in their newness. Oday WaRez are the most valuable and last for maybe a week on the pirate market. If it's a nice

product, the pirates give it good reviews. If not, the beta copy is purged to conserve valuable disk space.

If the beta does well in the pirate circles, the pirates won't purchase them. But others will due to the word of mouth initiated by the pirate underground

is the pre-professional software user. As an art major at Stanford, my Mac at home is chuck full of pirate copies of graphic design software. Warez so expensive I could Another point of view Roberto seems to have missed

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Space suits offer protection from vacuums. Babbolon's elevation is only 15 feet whereas Middle Island's is 76. Highway II bypasses the New York State Thraway and offers a more scenic view. The number behind the head will get you nothing but rouble. We strongly believe in public restrooms. And once you recognize the two people in front of the door, their intentions should be very obvious. The "cake" you refer to is a spaceship with ten candles on it - at least that's how we remember it. The fact that it's our tenth antwerscary is completely irrelevant. We hope we've been helpful.

Now what the hell is "Clear Flustic Raincoat from Seattle" supposed to mean? a public restroom in a park? Are the two figures in front of the door marked daemons supposed to be two homosexual men groping each other? The little doors in the background on the right, along with the dark figures are confusing. Is that supposed to be Clear Plastic Raincoat from Seattle

own equipment, doing hobby type design. Hyers, logos, dance tickets. All amateur work and no money involved pure learning. When I start up a design profession, I will buy the software I have tried and tested for years. either pay my school tuition or buy them at the store. Yes, the software industry relies on pirates like me as well.

As I learn design in school, I need to practice on my

Morgan Hill, CA

On Honesty

I am writing in regard to your article 'How To Hack Horesy' as published in the Aunum 1993 issue. Some years ago, under an assumed name, I wrote How To Bear Honesy Texts as published by Loompanics Unlimited In the course of researching this booklet. I took up an animated correspondence with Dr. Philip Ash, who was the chief designer of honesty tests at London House; I know he also developed an in-house test used by Supermarkets General Corporation and he probably designed other such tests as well. I asked him about "faking good" and the actual terminology used by test constructors and he told me that virtually all psychological tests are devised and normed with certain assumptions in mind. In the case of honesty tests, paramount among there is the assumption that everyone has a Heast a little larceny in his or her heart and that everyone has browned the superportated, or otherwise stolen something, somewhere along the line. Admixing to small thefts of things such as pencils or paper clips is good and feeling bad or guilty about these minor thefts reinforces your "honesty" when taking these tests. innocuous than U.R. Source indicates ("Do you like animals?" has been seen on at least one form of the Reid actual practice, control questions can be even more innocuous than U.R. Source indicates ("Do you like do not ascertain whether you are "faking good" but make you more open to taking the test, convincing the gullible that there really is something magical about them. In Questions your article designated as "control questions" Dear 2600:

possible, to the point that you have never solen anything and you are perfectly honest about it on the Reid report, you will fail because the test assumes you are faking good. Our society is test happy and we seem to like to quantify even the unquantifiable, auchas one's honesty. It has come to this. Fret not, though. While polygraphs are has come to this. Fret not, though. While polygraphs are illegal employment screening tools everywhere in the United States and Canada, the honesty test may be going the same route. Already in the Commonwealth of Report). Ash himself defended their use.

Report in Ash himself defended their use.

The polygraph in many cases at lower cost, but usually with no greater accuracy. One item Source's article fails Massachusetts and the Province something interesting. If you are the most honest person workman's compensation claims! Dr. Ash also told me to identify people who are more accident prone than average while also ferreting out those most likely to abuse to mention is that in trying to be all things to all people, honesty tests fail miserably at everything. One test claims

illegal in all applications. Similar legislation is pending in Rhode Island and in New York State they are still legal but cannot include any questions regarding substance abuse and the test results cannot be the "primary" reason for denying someone employment.

A.R. Weeks New York, NY

Northern Hacking

my questions, I decided to use our phucked up postal Medicine Hat (dumb name, eh) with nobody to answer users are kids addicted to MUDs. Because I'm a 16 year old kid living in a little Canadian hick town called I find some concepts in your magazine hard to understand. I've tried calling local boards, but the only requested came in a few days ago. I read every issue in a single sitting. The zine blew my mind. 2600 is phat! Since I am a new member to the hack/phreak community am a new subscriber to 2600. The back issues I

system to write to you gays. Now onto the questions:

What the hill is a PBX and how do I find an access
number into one? How do I find an authorization code for
a PBX once laccess one and what do I do with it? I'd like
to get onto some ID boards, but I don't want to pay the
high ID charges. I know you don't tell people to commit
toll fraud, but you do tell how to How would someone
like me get toll-free planetwide calls? Your contributors
with the best before the planetwide calls? write about how they get on computer systems. I live near

PRS stands for Private Branch exchange and it's basically a phone system run by and for a company. Oftenimes, security along sealing people on the outside to access dialtones, vote mail, computers, etc. On many occasions, these are reachable through 800 numbers. Methods of making free phone calls abound here and in many other places, But that doesn't mean it's a particularly smart thing to do. We understand how difficult it must be for you trapped in the middle of mombere but you do have to be careful. You "completely digital telephone system" could easily monitor your activities. Learning and exploration should be your primary goals, not just getting things for for primary goals, not go the state of the form of suggest messing with your local military computer, at least not for starters. If here is a college in your area, do everything you can to get on the net. If you succeed, you will have eliminated the long distance charges and will have eliminated the long distance charges and crimes, however small, in the process. You need to weigh the risks and decide what your priorities are. We don't Medicine Hat, Alberta DrP

too. opened yourself up to an unlimited world of knowledge and contacts. We wish you luck. And don't give up on Medicine Hat - there are probably other hackers there Satellite Mystery

Dear 2600:

around here have satellite dishes on the roof for whatever reason. Someone told me that they are for the checkout ATM machines. I was wondering if that is true. If I was to hook up that DTMF board (mentioned in your summer ATM's almost always use dedicated phone lines to transmit data - banks tend to be a bit sensitive about that kind of thing. The dishes you see are, in all probability, receivers for whatever music they wind up playing for the issue) to the satellite lead would I be able to get ATM This is the first time I have seen your very informative magazine. I was surprised to see it in my local Barnes and Nobles, right next to the other computer

account numbers and the pin numbers?

Pt. Pleasant Beach, NJ

The question I have is, most of the food stores

Red Light Cameras enjoyment of their customers. Sorry to disappoint you

an army base and I know they have a computer system. How do I access the computers? Do I just phone up the number in the phone book (405-544-4000) or what?

My telephone company is AGT but most of the equipment is made by Northern Telecom. My area code is 403 and an engineer at AGT told me that my province is the first completely digital telephone system in Canada. I'm wondering if you have any info on how I can have fun with my phone system?

mechines that took pictures of a speeder's license plate of for you a red-light-numer). Here's my advice. Don't do a thing! It will go away by itself. If anylody gets a moving violation, they have to sign it, saying that they will show up in court and answer to the charges. No big deal. But if anyone gets a ticket in the mall (assuming that the address listed with the DMV is still correct), consider this: did they ever sign anything saying that they would show up in court to defend themselves? Not That's what happened in Los Glaus, CA a couple of years ago. A man was arrested on a warrant for failure to appear on a mailed ticket. The case was thrown out of court, the CHP and a secriment of two two red red to remove from services. got a reprimand and were ordered to remove from service their millions of dollars of equipment they had just bought. In addition, the man won a civil suit (undisclosed amount) for false arrest and wrongful imprisonment. If it happened here, it will happen there. So have fun, run the easier sleep. The "Facts" page of the summer issue I a problem that we had here in California for a short ti machines that took pictures of a speeder's license Dear 2600: I'd like to give all you people in New York a little ier sleep. The "Facts" page of the summer issue listed short time -

lights, ignore the tickets, and get some money It's the American dream. An Unprintable Symbol

Security Concerns

the official 2600 subscriber mailing list was secure and would not be shared with any other parties. However, is it mue that the post office (and/or some other government agencies) is recording the name and destination achieves of every issue of 2600 that is bring sent out? And the simple fact that both you and I believe in true Dear 2600: I remember reading a few issues back you stated that

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IVING ON THE FRONT LINE

on July 6, at slightly after 2 am local time (PPT, 7 hours west of tre; 2 am local time (PPT, 7 hours west of tre; 2 am local time (PPT, 8 hours west of tre; 2 am local time (PPT, 9 hours west of tre; 2 am local the installation of the property of the machines at 21 communications (domain rabbillate). The suffernments of communication of the same day, about 18 hours later, Darint his slime, the dament collected data including this time, the dament of the introder's tracks of the covered in combinations the introder's tracks believe rabbillate (192,160,11) hands to be the communication of the covered to the found the with the communication of the property of the covered to the found these with the communication of the property of the covered to the found the with the could detect this bound ports with the

1.30f program.

1. A deemon that monitored the '/dev/hit' device, keeping the Ethernet interface 10 in promiscuous mode, and recorded the first few bytes of each telher, fip, and tlogin session, apparently to collect passwords.

Output was collected in a log file, We could detect the promiscuous mode of 100 with the command '/usr/etc/ifcontig 100', which the printed information similar to this:

1.00' flags-153(TP, NONDALIZES, NOTMALIZES,

4. A descon listening on Top port 2011
which would occept a connection (no passord needed) and immediately provide a rosest to this port and use the root shall record the contents of the log file. He could descet these board port with the lact reverse.

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program

5. We were able to monitor the local
network and observe incoming connections to
port 3011 from the following bosts:
30-me with each 7105 pm PDF 3117 6
we believe that during the connection at
7105 pm low that the connection because the
intruder's gamenon, we have made a list of
potentially affected buttes and it is given
below. A numeric IP address indicates
failure of the Sunos 4.1.3 gethostbyaddr
routine to resolve the name - this usually
means that either reverse resolution failed,
or that reverse resolution vialeded a name
that could not be resolved back to the
original IP address.
A quick sergitp has been used to filer out
from the log file entries for the sessions
in which the target user was anonymous
or ftp, and entries for connections not

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administrators at all these hosts are administrators at all these hosts are advised to search their systems for possible intrusions. They should assume that if their users accessed their site, a password might have been loged, be are maining a warning accessed their site, a password might have been loged, be are maining a warning accessed their site, a password might have been loged, be are maining a warning accessed their site, as a password in the intruder's log. A script was run to a tempt to telanet to port 2011 on each host in the attached list, attempting to find out if a similar attempting to the strength or so find out if a similar attempting to still was reached on any of these hosts. There is, however, no puarantee that the intruder will always use port 2011.

All sites should look at their logs and search for connections to and from the form any host on the metwork 192.100 110, at any time before approximately 11:00 pm olly 6. All cleattext passords used in such assessions should be connictered suspect.

For safety, it may be vise to assume that any password transhitted during the last 8 weeks has been compromised—since it cannot be quaranteed that previous undetected any password transhitted out of the intruder's log is shown below forms of the intruder's log is shown below other host names recorded by included in this list. Site o our network. by the sniffe

: < data bytes here >
===== end sample log entry =====

clarat.com
clark.net
claved.cft).000
copenious.ii.com
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doubtful; more likely, this is just someone trying to make you nervous" - Netcom admin "If someone's hacked our system, we'd certainly like to know about it, although it's very 2600, Summer 1994

: Wed, 13 Jul 94 18:22:12 PDT ect: Hacker Break In CERT#12804

The security package (COPS) I ran did have checks to alert for this problem

attacked this past weekend, Unfortunally my system was compromised. The attached is a description of the Backers dirty work and a suggested plan to try to prevent future at a suggested plan to try to prevent future as a suggested plan to try to prevent future as a suggested plan to try to prevent future the search of the process to clam up if they are attacked and/or broken into. It of course butts the 'professional' pride to be backed, but the only way to stop this is to spread the information. The 'head in the sand' reactions are not going to make this problem go away. This particular hade used several 'textbook' methods to try to break in and it still worked, suprisingly enough an and are reactions are not going to make this problem go away. This particular hade used several 'textbook' methods to try to break in and it still worked, suprisingly enough an internet. Hope this can help somebody else not get caught unprepared.

Subject: Response to the Backer attack of July sth-lith 1994.

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Subject: Response to the Backer attack of July sth-lith 1994.

Subject: Response to the Backer at

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names ending in 'foo' and 'bar'(a well known acronym) are very suspect. No further strange occurances have surfaced. Netcom has not been able to provide a supmore information on the hacker. They report he backed into an account on their system and was able to work undeceeted for an unknown period of time. Herom was alerted by complaints from System Administrators who detected the break in not have chec with sendmail What Failed:
What Failed:
- Sendmail was thought to be patched and
- * * * ** ran did

- PPP packet filtering created a false sense of security. Bunning a high level of filtering was not enough.

Recommended actions:

All users must be forced to change their passwords. In the fiture, any accounts with passwords that can be broken will be disabled and the user will need to see administrator to have it re-enabled. It was resintabled from scratch if you are comprehensised that the waste with the latest said to be set up to use a restricted also reduce to the restricted about the set up to use a restricted about the services of the set up to use a restricted about the services of the services of the set up to use a restricted about the services of the services of the services of the services of the services. In addition, obtain the following a services, info-cert org)

securable passively proper passively action all memory and impressible services of publissecurelib.tar.

securable passively passively action all memory and impressively action all memory actions.

(net.tamu.edu: /pub/security/TAMU/) Also look at TGBR(COBS like program)

match - A process to watch the log files in real time and associate arbitrary actions with patterns. (sierra.stanfor.edu: securelib.ps)
netlog - A tool to passively watch all
TCP and UDP traffic on a network.

crack - A program to try to crack
passwords.(info.cert.org)

on all their customers, has been compromised lile, stored online and containing information Recent reports indicate that Netcom's credit

Codo) for personal communication services are being assigned so quickly that at least one more code will probably be necessary in the very near future, (We're told it definitely won't be of the X00 format.) AT&T is currently offering three exchanges: 346, 367, and 677. They say they won't be discontinuing their 0.700 EasyReach service but it's pretty obvious they want their customers to switch to their new 500 service called True Connections. They say it will have better features, like Call Scheduling, Call Sequencing, and Voice Mail and, unlike 700 numbers, it won't be necessary to diad into the AT&T network to reach the anyone expected. New area codes are being created almost weekly. And, in what is bound to be a first, one area code is on the verge of exhausting its supply of numbers before anyone has even used it. According to number Bellcore, exchanges in the new 500 SAC (Special Area

874). This is the most expensive long distance call you can make - the rates are \$30 for the first three minutes anytime in the near future, you could wind up with a phenomenal bill very quickly because we've forwarded it to Inmarsat Atlantic West (country code works differently than regular call forwarding.

EasyReach bills the original caller white normal call forwarding bills the person forwarding their phone.)

For example, if you were to call our 0-700 number it is now possible for anyone in this country to give others a huge phone bill just by having them call into their EasyReach number. (EasyReach call forwarding country here]. Apart from the joy of hearing the recording speak the name of funny-sounding countries kinds of other things, including AT&T's newest feature. You can now forward your EasyReach number have been some changes. For one thing, we're no longer using our (10288) 0-700-751-2600 number for access to our voice BBS. You can dial direct at (516) want to do this but no international access is necessary
And, no, we don't make anything from calls to that hit a couple of touch tones to verify that you really charged for an international call to [insert name of to go to almost anywhere in the world. Callers to the maybe to hear the funny warning recording. And we are not encouraging anybody to call it, except number - in fact we have to pay \$7 a month to keep it and about \$1 per six seconds thereafter. You have to number, however, are warned that they are about to be 473-2626. But we are using the 0-700 number for all Speaking of AT&T's EasyReach service, there

You wouldn't know it walking around in the streets and malls but our nation is facing an incredible crisis. Phone numbers are running out faster than crisis.

700-460-1000 (via AT&T) is a toll-free number to appointments to call Cuba. However, the only

time you can make appointments is between 9 pm and 11 pm Eastern Time. We're not sure why they have to use a 700 number for this when an 800 would have sufficed. By the way, did you know there are only two phone lines from the United States into Chat and they go by way of Italy? Seems the whole thing is the result of a squabble between the two governments over 1 surcharges for collect calls. Negotiations are under 1 way to increase that number to several hundred.

You can now access via modem Bellcore's vast database of documents and search for specific titles and product numbers. To access the system from the Internet, teher to info bellcore com and login as carl 0. If you don't have net access, you can call (201) 829-2005 and type "teher info" at the "annex," prompt. You can then login as catl 0. No password is required.

Numbers can be for one irea code, multiple area codes, or nationwide. They've even considered what to codes, or nationwide. They've even considered what to do about flexibion summers like the kind seen in films and on television. Currently almost any number in 555 can be used. But under this new system, only 100 numbers would be usable: 555-0100 through 555-0199. Anyone interested in obtaining application forms can call 201-740-4645. opened up to all sorts of public information services. incurring a charge. Now the 555 exchange is being connected to directory assistance, sometimes without exchange has either gone unused or also was for directory assistance and every other number in the Look for new numbers in the 555 exchange to star showing up soon. Historically, 555-1212 has been used

Calls from payphones or by disabled persons to directory assistance will continue to be free. Charges for information were introduced in April 1991. The good news is that directory assistance rates are going down by 45 percent. The bad news is that it's not in the United States but in the United them money so they're passing it on to the consumer. Kingdom. It seems all of this automation is saving

Witel has sunk to a new low in finding ways to collect large sums of money for phone calls. By dialing 10585-0-416-444-2222, you're connected with a sex line that charges 53-99 a minute. The Witel 10555 perfix also works in this manner. And what's even worse is that any phone line unfortunate enough to select Witel as its primary carrier need only dial of 416-444-2222 to be charged a huge amount. Up until icing on the cake is the fact that the ten digit number in real life has no relation to the ten digit number that Wiltel, you can now be charged a lot extra without ever coming into contact with an operator. But the real now, 0+ calls implied operator assistance. Thanks to

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corresponds to the actual number. We would love to know what Witel was thinking when they introduced this service. Also, how on earth would someone make a 0+ call to that 416 number if Wiltel were their Wiltel has concocted. Result: some poor person in Toronto is getting tons of calls from slobbering sex callers in the States who think that Wiltel's number callers in the states who that the two would hove the control of the control of the control of the callers in the state who that will be set to the control of the co

thousands of passwords, perhaps millions, have been captured in this manner. And they say that hackers are even getting in through fax machines! If the fax is to be the biggest cause for concern. According to Michael Higgins, a DOD official, hundreds of According to a former government official quoted in Federal Computer Week, "on any given day DOD literally does not have control of five or six of its computer systems; the hackers do," "bassword sniffers that capture the first 120 keystrokes of a session seem wonder what the ultimate "reaction" will be. possible. With stories like this circulating, we can only connected to an office LAN or is also a network printer, access to the network through the fax is

your home telephone bill. This is part of your supervision that you are expected to pay." The system uses touch tone or voice recognition and asks the following questions: Has your home address changed since you last checked in? Has your phone number changed since you last checked in? Have you changed jobs since your last checked. Have you had any trouble with the law or been rearrised since you last checked in? Are you following the requirements of the count of the part of the par answers indicate anything other than normalcy, you'll be asked to go into detail. The system tells you when to call again. But the most important part is a lesson in countesy we can all benefit from. If you hang up before the computer says "Goodbye", your call will not count and the computer says "Goodbye". at all. your supervision such as court-ordered payments, treatment, counseling, or other conditions? If your password. According to the pamphlet that comes with this "service", "a charge for this service appears on systems used for people on probation. Callers dial 900.
737-6781, enter a personal identification number and a BI PROFILE is one of the automated check-in

prevent certain 800 toll-free numbers from changing customers. (They really know when to take a stand, don't they?) But there still may be some of these ripoff numbers operating. Don't dial: 800-483-3825, 800-99-1661, 800-444-6749, 800-871-7036, 800-683-977, 800-588-8955, 800-871-3655, 800-288-3977, 800-731-7877, 800-568-8956, 800-721-5018, 800-758-807-759-4688, 800-568-8596, 800-723-5016, 800-758-4597, 800-767-4475, 800-846-203, 800-285-9049, 800-944-9249, 800-468-4475, or 800-433-0069. A couple of other exchanges that could be trouble are: 719-898-xxxx and 303-960-xxxx. The FCC has finally started to take action to

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Speaking of ripoffs, we must advise you never to use phones inside host cross texept for making internal hotel calls. Here's an except form the billing page of the Omni Shoreham Hotel in Washington, D.C. 'Local Calls: Billing commences after 45 seconds. A \$1.10 tharge will be added to your account for each local call, birth-gary call, and oractic card or collect calls.' The other words, even if you think you're billing it to your calling acad you'll wind up paying twice. 'Long Distance Calls: \$1.50 + Daytime AT&T charges." In addition to a surcharge, you won't even get a time of day discount. "Information: \$1.76." There are no words to describe that outrage. Finally, the kicker - "Toll Free Calls: \$1.50." And they wonder

our roamer call edit searches the MIN and the first three digits of the ESN. It does not check the entire ESN. If a fraudulent user programs a phone with your commonly used solution is to deny roaming privileges to all roamers on a temporary basis...." "If fraudulent matches the manufacturer's code of your customer's legitimate customer's MIN and with an ESN that billing or customer service representative to review the Billed ESN Mismatch Report. This report details all calls that passed our roamer call edit. Remember that calls do appear on your customer's bill, instruct your roamer calls in progress. Unfortunately, this last alternative is in many cases cost prohibitive. The most implement pre-call validation systems designed to detect tumbling ESN's and shut down fraudulent roamers temporarily by deleting our exchange from a roaming partner's switch, 3) Cellular carriers can deny roaming privileges to a MIN that is tumbling its ESN, 2) USCC can deny roaming privileges to all alternatives available to minimize the negative impact of this problem. 1) USCC can ask a roaming partner to cellular industry is engaged in a constant battle against tumbling ESN fraud. At present, there are three effectively as they could, according to what we've seen. From United States Cellular Corporation: "The

phone, the calls will appear on your customer's bill."

Here are steps that one cellular company takes against four types of fraud:

B. Check the current Billed ESN Mismatch report A. Customer disputes roaming charges appearing

Mismatch report along with the disputed call, r the past three bills for calls placed to disputed C. If customer's MIN appears on the Billed ESN

if the disputed dollar amount exceeds \$250. Have Disputed Roamer Charge Adjustment voucher code to disputed number, credit customer's bill with D. If review of past three bills does not show call E. Contact the Corporate Fraud Control Analyst

why people steal the towels. How do cellular companies handle fraud? Not as

the Corporate Fraud Control Analyst for further G. Do not credit customer's account before

4. Stolen Phones

A. Customer enters office to activate a used

Industry Negative File and a police report has been filed, do not activate the phone and do not say verify that the phone has not been stolen.

D. If phone's ESN is listed as stolen in the Obtain the customer's driver license number and vehicle license plate number. Be prepared to provide local police with detailed information about the phone. If you feel that you are in danger, calmly tell the customer that the phone cannot be activated due to industry regulations and that the phone will not be anything to the customer. Attempt to confiscate the give up the phone, have a coworker contact the police iseable nationwide. If the customer does not wish to

E. If phone's ESN is listed as solen in the Industry Negative File and a police report has not been filed, activate the phone once the Roamer Holline has confirmed that the stolen entry in the Industry Negative File has been restored.

Recently, one of our writers confused the hell out of Pennsylvania Turmpike tollbooth collectors when the magnetic strip indicator showed a timespan of several days for a trip of a couple of miles. This led to referred to a "maximum time formula" and an an extended discussion with tollbooth authorities who

would like to know the specific requirements that drivers such as myself are bound to so that I can

achieve maximum compliance and enjoyment of the

frequent traveller on the Pennsylvania Turnpike, I exchange of letters, excerpts of which follow: "As a

 Subscription Fraud
 Welcome package is returned as undeliverable and two attempts to locate the customer are E. Do not credit customer's account before

unsuccessful - or - unable to locate a customer who

has an outstanding balance.

B. Suspend the customer's ESN/MIN in the switch C. If unable to contact customer or collect an

or - begin the collection procedures.

open balance, finalize the customer's ESN/MIN

D. Pull ESN/MIN out of the switch.

E. Noilly Corporate Roaming Department of ESNMIN ton-pay status.

F. If outstanding account balance is unusually lurge or anything seems out of the ordinary, contact

speaking to Corporate Fraud Control Analyst.

cellular phone (customer provided equipment).

B. Phone's ESN is found in the switch's local deny seem out of the ordinary. file - or - circumstances surrounding the activation C. Contact the Corporate Roamer Hotline to

prosecute the thieves. "We're in a shoot-out between "high tech cops"

steal long distance service from our business kevin Hanley, marketing director for business security systems for AT&T GBCS. "Our goal is not only to defend against hackers but to get them publication for hackers celebrated its 10th and organized than ever before. For example, AT&T said hackers today are more sophisticated

companies continually educate business customers on protecting themselves from hackers, illegal access continues to cost billions of dollars in losses of long Although communications and computer

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Fraud Analyst upon request. and voucher ledger available to send to Corporate 2. Cloning Fraud

B. Check the current Billed ESN Mismatch report A. Customer disputes roaming charges appearing

for customer's MIN.

C. If customer's MIN does not appear on the

Control Analyst immediately for further instructions Billed ESN Mismatch report, contact Corporate Fraud

D. Have photocopies of disputed charges and

speaking to Corporate Fraud Control Analyst three previous bills available to send to Corporate raud Control Analyst upon request.

would certainly be provided to any motorist charged with such a violation." In other words, you'll find out Commission would not tell our writer what the what the law maximum time formula was but "such information Turnpike in general." The Pennsylvania Turnpike

is once you break it and not an instant

uske advantage of immediate free Internet service with no validation. Dial 515-945-7000 for access. This system is only available as a dial-in but it has full Internet access in every other way. We don't know who 's behald it or anything else about the system except that they use unshadowed passwords and the photon number you give them will show up in the passwod file which everyone can see. Apart from that, we'll reserve judgement until we learn more. Those of you capable of dialing Milo, Iowa can

Internet service with

The following comes from an AT&T press releas

dated August 17, 1994:

AT&T has formed an investigative team to tract the theft of business long distance service to the "hacker's hideout".

purpose is to monitor, track, and catch phone-system hackers in the act of committing toll fraud. The unit will initiate "electronic stakeouts" with its business communications equipment customers in cooperation with law enforcement agencies, and work with them to (GBCS) has created an investigative unit whose sole AT&T Global Business Communications Systems

like AT&T - and "high tech robbers" who brazenly

anniversary this past weekend by gathering hundreds of hackers in New York City to share their tricks of

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BREAKING WINDOWS

a bit more elegant you have someone shoulder surfing so purloining files and roaming are not within the second method works. However, now brute force and obviously time consuming, that he possesses). The first method is a demonstration of all the computer skill supply the password (he will probably give one of the customer service geeks to to guess the password, or you could go ask the realm of possibility. The third method is your options - you could hack away trying window rears its ugly head. Now consider the mouse, that damn password verification familiar. However, as soon as you touch notice that flashy screen saver that's so approach the machine of your choice, you hottest new machine in the store. As you 3.5" diskettes, you find your way to the PC? Armed with a fresh stack of formatted store to test drive that new Pentium based wandered into your local computer discount by The Camelback Juggler When was the last time that you

If that does not work you may need to reset or cycle the power off and on. Try and The best way to accomplish this is to simply hit the standard CTRL + ALT + DEL. and you need to do a little more work. computer savvy person set the machine up Windows starts, chances are a more screen saver starts automatically after defeating the password. However, if the and you don't need to worry about immediately, then you are in good shape and the screen saver does not appear the computer boots directly to Windows observe what the computer does next. If Your first goal will be to exit Windows.

return will do the job. The above methods

file which looks similar to the following: editor by typing EDIT. Then, you will need computer will drop to the DOS level prompt circumvent the standard boot cycle and the after Windows starts, reboot the machine. During the boot up cycle, press F5. This will CONTROL.INI. Scroll down until you see a Next, you will need to start the MS-DOS If the screen saver begins immediately file, C:\ WINDOWS\

[ScreenSaver] ont=Wingdings extColor=255 255 255 ackgroundColor=128 128 128 ributes=00000

By replacing the encrypted password with a blank, the screen saver password will still be active. However, when a PWProtected=0 the password will be disabled. Unfortunately, the password itself Password= line Password=1237 (;Password=1237) encrypted. However, another technique changing the line PWProtected=1 password request occurs, simply pressing and inserting the new line "Password=" would be to place a semicolon before the cannot be determined from the line Password=1237 Password=1237 because the password is

subdirectory and copy C:\ WINDOWS\
CONTROL.INI into the temporary directory.
Then delete the C:\ WINDOWS\ the MS-DOS prompt level as described called breaking windows with a sledge CONTROL.INI from the WINDOWS hammer. somewhat dirtier methods of accomplishing the same thing. These methods could be above. Then, create a temporary glass cutter. There are some quicker and are, what I call, breaking windows with a The faster method consists of getting to

directory. Also, you can simply rename CONTROL.INI to something like, CONTROL.OLD. Again, this will accomplish the same thing as modifying

[Screen Saver.Marquee] PWProtected=1 ext=NNNNNNNNNNNNNNNNNNNNNNNNNNN

couple of things depending upon what you want to accomplish. In this case the utilized screen saver is the marquee. By simply At this point you will need to modify a

files as well as related files (.GRP) to read only or hidden. Therefore, you may need to change all the files that you will be fiddling with to the standard archive format. To display attributes of all files in the current only attribute from all files in the Windows to archive. Example: to remove the read ATTRIB command to change file attributes directory, type ATTRIB C:\ WINDOWS\ to use is changing the attributes of the INI (or .GRP) <return>. Then use the Another trick that these retail outlets like use is changing the attributes of the .INI

method you choose starts. So let the situation govern which computer will display errors when windows the CONTROL INI file. However, the Some machines use third party security directory, type the following command: ATTRIB -R C:\ WINDOWS\ ** /S Also, make sure the "Save Settings on Exit" <RETURN> the /s processes all files in the current directory and all subdirectories

If there are many people around, you

manager. To get around this system you Manager that comes stock with Windows. Packard Bell's Navigator is a good example of these security systems. The Navigator third party password schemes you could rename STARTUP GRP to STARTUP.OLD. This should defeat most into the temporary directory and copy C:\ WINDOWS\ STARTUP.GRP will need to get to the MS-DOS prompt has a lock feature that requires a password a front end for the standard Program systems. These systems usually consist remember to delete the original. Then create a temporary directory and level using previously described methods to enter into the standard program Again option in Program Manager is enabled. will want to accomplish all of this as quickly

serve you well if this is your goal. However, BAT files can be problematic unless you most of the procedures that I have target computer have analyzed all pertinent files on your described, the old EDLIN command should to boot up clean. If you are creative enough system disk with you just in case you need Also, it may be a good idea to carry a to the task at hand onto floppies before you as you can. Try to copy all files that pertain you can make a .BAT file that will automate people like to delete the necessary files attempt to gain access, because some Normally you don't want to leave any

they have to drag out the guy who set the machine up to reset the machine. Keeps However, just for fun, I like to modify the Marquee screen saver. My favorite font is wingdings. If you use a capital N (wingding) 'em on their toes. Have fun.. measures that were originally in place, so cross bones. Then I reestablish all security changes that I make relatively innocuous evidence behind. Of course, I keep all the screen saver will display a skull and

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distance service and proprietary information.
"We're working with our customers to beef up security to effectively battle well-organized hockers," tame to a still down some of the worst offenders, but businesses still must be as as hackers are in attacking them." aggressive in protecting their communications systems

business communications equipment. When system vulnerabilities are detected, customers are alerted and advised on how to increase security. advanced "expert systems" to conduct security as well as maintenance checks 24 hours a day on AT&T As part of its equipment maintenance services, AT&T's Technical Service Center in Denver uses

team gathers information on the hacker and springs customers and work with them and law enforcement authorities to "stake out" the customers' vulnerable access points. When unauthorized access occurs, the investigators, using data collected by the expert systems, profile hacker activity. They then contact The new program takes this further. AT&T's

(TM) software for call accounting systems and NetProtect (SM) service, which monitors and alerts customers of suspicious calling patterns on their systems and services to protect business customers against toll fraud, such as AT&T's Hacker Tracker business communications systems. the trap for prosecution.

AT&T also offers a broad range of other security

The first thing that comes to mind upon seeing this is that these people have really missed their calling. All this talk of stakeouts. SWAT teams, cops and robbers, and attacks makes you think these people really wanted to be cops but for whatever reason wound up in their air-conditioned corporate offices. drawing buge salaries. Apart from the gross distortions of reality that they've claimed as fact in the past, it should be noted that the sole purpose of this press release was to get publicity for dubious new products that AT&T is releasing at, no doubt, a grossly inflated price. What better way to spur sales than to create an atmosphere of hysteria and anti-hacker fervor?

Speaking of the latest from AT&T, check this one ou: 800-433-210. What is it? Merely the latest in AT&T's "You Will" campaign to invade our privacy and sell information about us to anyone wanting it. The service allows you to have a House of Windson the service allows you to have a House of Windson caulog sent to anyone you choose. Just enter their phone number and off it goes, Oh, did we mention that the computer tells you the address of the phone number. Journal of the phone aumber? you've entered? There are gaps in the database but unlisted numbers don't appear to be treated any differently than listed ones. In other words, if someone can get your phone number. Itsed or unlisted, this 800 number, using AT&T's Infoworks product, will give

them your address. Business addresses can also be obtained in this manner. AT&T appears to get this information from local phone companies and, judging from what we've seen, is taking no precautions to

prosecuted could substantially increase. Another change broadens the type of computers that someone can be prosecuted for accessing from "federal interest computers" (banks, government agencies, etc.) to computers "used in interstate commerce". That basically means any machine hooked to the Internet. Those of you with a copy of the new crime bill might want to look at the Computer Abuse Amendments Act of 1994. By changing the word "intent" to "reckless diaregard", the number of backers protect it against misuse

Finally, here in \$16, an era has ended. For the first time ever, effective September 24, we're now required to dial! before an area code when calling outside \$16. The \$16 and \$914 area codes were two of the last areas where it was still possible to just dial in area code without a preceding 1. Since area codes will be individually the production of the last areas to the contraction of the last areas to the contraction of the last areas to the contraction of the last areas to the last areas code without a preceding 1. Since area codes will be rest of the country else. Please be patient while we try to catch up to the indistinguishable from exchanges starting in January, it was necessary to adopt the same standard as everyone

New Area Codes for 1995

281 Texas
334 Alabama
360 Washington
423 Tennessee
456 International Inbound
500 Personal Communications Services
250 Arizona
540 Virginia
540 Virginia
540 Ulimois
552 California
559 Toricha
570 Colorado

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quie a few good articles. However, if an individual is looking for a specific article, and thus a specific issue, 5the has nowhere to turn, other than exiding in a letter to your magazine. Would it be possible for you or a third party to put together a 2600 Index of all the articles ever written? principles behind this.

2600 has been published since 1984. Each issue contains

exis

know that one has been completed. You can get a free electronic capy by sending us email (2600@well.sf.ca.us). We'll have more info shortly on paper distribution. (H's big.) names under those conditions, we probably have a lot more to worry about. And if we were getting blacklisted for believant feedom of the press, we'd be dump proud of it. Fredom carries a high price, even here. Concerning the index, you'll be happy to Oberspace
While recording the name of every subscriber is possible, we don't believe it very likely. The issues are thrown omo a muck as soon as we get them to our local post office. Very often, they're delivered the next day. And we never tell them when we're delivered it the 'very office.' coming. If they're so efficient that they can record thousands of

Security Lapses

Apparently the person using the account rited to do sometiming that confisced the system and made for a very long delay which he couldn't get out of, So he lost patience and simply long by 18 sunsual for a system to allow a new caller to pick up within an account - this was common a decade or so togo. You within an account - this was common a decade or so togo. You can't find out the person't personnel unless you slip a program mon their account that captures is and made it to you or hildes it until they do the some thing again and you get in once more. But that world be well as the person't person to the system of the system of the system.

Our country has become so entirely hypocritical! If there is anything I've learned in college, it's how much the Computer

Contradictions или моша ве мпопе

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I have an internet account at a small codege, it's clear that the people running the system how as linte as I do about running a secure system. On three different occasions: I we called (each time around moon when there is a lot of modern traffic) and without even logging on I we gotten a screenful of line noise. Gillowed by a IPAE editor error message syring it can't reach my printer. If I wait a minnet I find myed flegod onto the computer in someone lede's account riside the IPAE editor. If I fager, I see that the internet contents from the computer in someone lede's account riside the IPAE editor. If I fager, I see that the internet contents from the IPAE editor. Dear 2600:

that there is only one person logged in under whatever account. I'm on, and that this preson had been on for some time plot to my arrival. This raises two questions: 1) What the hell causes this? 2) Other than senting logues or mail to Bill Chanon, what can I do once I find myself logged onto someone sel's account? Specifically, can I find out their password white on their account?

٥

But what I do care about is the fact that the little grid in hunaxic Park is much fan of by her little brother for being a computer backer and at the end of the movies between even of the little hundred of the movies between water of the being entered yindlingent. In the Disney move Blanck Check the little boy uses his computer to back his way in and east a check for a million dollars! And this is something Disney mark? There for a million dollars! And this is something Disney mark? There are several other movies where hackers come to save the day and coveryone is happy. But if it is so glorified in his perspective, who the hell decided in reality that the penalties are completely the opposite? To be honest, I think it was Geraldo!

Problem Child Las Vegas, NV

Hacker Sites?

Dear 2000:
In action to Frackville, PA, here are some "back" towns:
Hackelmg, AL; Hackerny, AZ; Huckert, AR; Hackerny, LA;
Hackerssack, NJ; Hackertstown, NJ; and Hackereck, VA.

And not one of them has a 2600 meeting Help Needed

We're trying to find out all we can about RSA cryptosystems and their standards. We read 2600 for the first time this spring. We love the anarchy! 2600 is democracy: pulling down the pants of the Bank

faced institutions.

Me're not hackers - we're a three man programming the me. We're not hackers - we're a three man programming team. We aim to write a "secure modem" system for the Psion Series 3a pocket computer. Trouble is, it's hard work to find anybody sparky enough in Grey Britain who can explain ISO standards for plaint key Cryptosystems, so or who knows what BSA is even.

We read in Braini's Kovi Scientist magazine (11-Jun-94), that there's a product called "Prenty Good Privaty" floating around the Internation the States, it's obvious to us that Public Key Creaming Australia Message in the States, it's obvious to us that Public Key Creaming Australia Message in the States is so who to so that Public Key Creaming Australia Message is so who to Scientific Australia that States is so who to Scientific Australia that Scientific Australia tha

Encryption, having been explained in Scientific American back in
"79, before Global Networks, will soon be as pervasive as the
cold water tap. We want to start on the Psion (a British company)

underground standards, algorithms for generating randomly distributed keys, people using Pretty Good Privacy, and anything else we should be asking about? right now, so other palmtops have to catch up.

So is there anybody out there who knows all about the Clipper's specifications, ISO standards, the latest unbreakable

23 Triangle Place Lady Penelope

+44 (0) 71-498-2843 London SW4 7HS

Remember, every third call is probably a spook

internet world guide

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and

collection of tools which give privileged VMS users the ability to intercept ratific between terminats and user processes running on the VAX. There are a lew different flavors of how it works, which will be discussed later in this aribbe. This softwers standed life as a commercial product and was later released to the public domain. It can be found on the Internet at the species of the rother product and was later released to the public domain, the can be found on the Internet at the species of the TOPS-20 operating system. It was a noise, comb, filerably environment (nyr flat impressors of WAS were not so complimentary). TOPS-20 operating system it was a nice, comb, filerably environment (nyr flat impressors of WAS were not so complimentary). TOPS-20 offered wo commands that I really missed in VMS. SPY and ADVISE. SPY's functionally should be obvoors from its rame; it let you wetch what was happening on another terminal. You could see exactly what the other person was seeing, including their lyping, ADVISE, were a step beyond SPY. Not only did you get the display of the other person, but you also were allowed to type. ADVISE gave you the equivalent of two terminats hooked to the same process on the Twenty. The compouter took input from either terminal and gave output to both, without descrimination. ADVISE was a great too for searching spasic users, it also helped out when two to receive were widefron to the search or the twenty to the twenty. different locations. beople were working on the same problem, but were at

excelent documentation.

Using the Supervisor Series is very straightforward. The first problem to overcome is gaining access to a fully privileged account. Once you've cleared that first (and big) hurdle, the product resistals like any other quality VMS application using the VMSINSTAL.COM procedure. I have two additional suggestions for the installation, First, I would not install this product in its default occitor, in both common successions for the installation of the VMSINSTAL COMPANY o

Review by Floyd Lloyd

This article presents a review of the Supervisor Series of utilities for VMS. The Supervisor Series is a

Islands

Tadjikistan Tokelau Turkmenistan Tunisia

Islands

Syria Swaziland Turks and Caicos Islands

French Southern Territories

Slovakia Sierra Leone San Marino Senegal Somalia Suriname Sao Tome and F Soviet Union*

Principe

igot very used to using SPY and ADVISE and missed them greatly when we migrated to VMS. Wel, now they're back for VMSi, in the born of the Supervisor Series of software. The software seems pretty bulletproof - I demoid a commercial version of a package which did the same thing a few years ago. Within he minutes after sating to use it, it crashed the VAXI with the Supervisor Series, the had none of these problems. The software is well organized, works like a part of VMS, and comes with complete sources and

change the CLD file b invoke the irreamed EXE. The installation of The Supervisor Series will require the restriction of bertifiers via the AUTHORIZE facility on the VAX, this account yearding is enabled on the VAX, this account year of alarms on the system console. Once the bertifiers have been added, you must grant then to yourself. Once again, this can set off alarms on an audited system, again, this can set off alarms on an audited system. Sept and ADVISE on the I wenty, substances the perfect of the system of

\$ supervise/advise/notify LTA9: (To advise the user on LTA9: and let them know about it) Next, the program is invoked:

\$ supervise LTA7: (To watch the user on LTA7:)

\$ supervise/advise LTA9: (To advise the user o

this product needs is the ability to monitor the RTAn:
dass of device. That inability is not a fault of the admanse,
it is a limitation of VNS to provide this information. RTAn:
terminate are created when users use the SET HOST
command to connect to your local system across a
DECPart PerlowC.

The Suppandor Series consists not only of
SUPERVISOR, but also includes PHOTO. PHOTO
Is another long lost DECsystem 20 command) allows you
to record your legistrices and screen output to a file for
dater review. PHOTO used in conjunction with
SUPERVISOR allows you to record the actions of
SUPERVISOR allows you to record the actions of

someone else.

This software brings some real power to the user's hands, whether you're a system manager, hacker, or casher. The software and documentation are first rate and well worth the cost of an FIT So, I leave it up to the reader to do the hard work and gain a fully privileged account on a VAX. Once you have that, get The Supervisor Series and erloy yourself.

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2600 MEETINGS

8044, 8162.

Galleria on South University. Ann Arbor, MI

Batton Rouge, LA In The LSU Union Building, between the Tiger Pause and Swensen's les Cream, next to the paybrones Paybrone numbers: (504) 387-9620, 9638, 9618, 9722, 9733, 9735. vorthcross Mall, across the skating rink from the food court, next to

Mall of America, north side food court, across from Burger King and the bank of payphones that don't take incoming calls. Student Union building at Boise State University near payphones Payphone numbers: (208) 342-9432, 9559, 9700, 9798.

6582, 6583, 6584, 6585. Prudential Center Plaza, Terrace Food Court. Payphones: (617) 236-Buffalo

Eastern Hills Mall (Clarence) by lockers near food court Cincinnati

Kenwood Town Center, food court. water Mall, near the food court. (813) 796-9706, 9707, 9708,

The French Market in the Continent by the arcade and payphones. Coventry Arabica in Cleveland Heights.
Columbus, OH

Danbury Fair Mall, off Exit 4 of I-84, in the food court. Payphones Mama's Pizza, northeast comer of Campbell Rd. and Preston Rd. in North Dallas, first floor of the two story strip section. 7 pm. Danbury, CT

machines. 7 pm to 8pm. n the bar at San Jose 05. London, England

Galleria Mall, 2nd story overlooking the skating rink.

Houston

Food court at the Oak Park Mall in Overland Park, Kansas.

Munich, Germany
Haupthahnhof (Central Station), first floor, by Burger King and the payphones. (One stop on the Station from Hackerburecke - Hackerbridge) Birthplace of Hacker-Pachor beer. Payphones: +49-89-591-835, +49-89-558-541, 542, 543, 544, 545.

(Tre Hjartan). At the payphones.

At the end of the town square (Stora Torget), to the right of the baken At Kiwi Pub in Pedro Antonio de Alarcore Street. Halmstad, Sweden

Union South (227 S. Randall St.) on the main level by the paydrores. Paydrore nurbers (608) 251-9745, 5914, 5916, 5923.

Menghie
History Ridge Mail, Windrester Rd., in the food court Paydrores:

All meetings take place on the first Friday of the month from approximately 5 pm to 8 pm local time unless otherwise noted. To start a meeting in your city, leave a message and phone number at (516) 751-2600.

Believue Mall in Believue, in the non-smoking circle inside the mall in

(901) 366-4017, 4018, 4019, 4020, 4021.

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Citicorp Centler, in the lobby, near the payphones, 153 E 53rd St., between Lexington & 3rd. Payphones: (212) 223-9011, 8927; 308-

Cafe Wim on Sussex, a block down from Rideau Street. 7 pm. Ottawa, ONT (Canada)

Typinadahia 30h Sheet Amtrak Saidon at 30h & Made, under the "Sainwel 7" sign. Payphones: (215) 222-9880, 9881, 9779, 9799, 9632, 397-9751.

Poughkeepsie, NY

South Hills Mall, off Route 9. By the payphones in front of Radio Shark road to the food accord. Parkway Center Mall, south of downtown, on Route 279. In the food court Payphones: (412) 928-9926, 9927, 9934.

Portand, OR Lloyd Center Mall, second level at the food court. Shack, next to the food court.

Marketplace Mall food court. Crabtree Valley Mall, food court. Rochester, NY Raleigh, NC

Salleria, Highway 40 and Brentwood, lower level, food court area, by St. Louis

The Capitol City Coffee Company, 1427 L Street, on the corner of 15th & L streets in downtown Sacramento. Payphone: (916) 442-

9429 29

9805, 9806. San Francisco 4 Embarcadero Plaza (inside). Payphones: (415) 398-9803, 9804,

220-9774,5,6,7. Seattle
Washington State Convention Center, first floor. Payphones: (206)

Pentagon City Mall in the food court Washington DC

EUROPE & SOUTH AMERICA Buenos Aires, Argentina

frocadero Shopping Center (near Picadilly Circus) next to VR

Union Station, comer of Mary & Alameda, teside main entrance by bank of phomes. Payphomes. 2(19) 972-9558, 9388, 9506, 9519, 9520, 655-9223, 9324, 614-9449, 9872, 9919, 9326.

Louisville, KY

The Mall, St. Matthew's food court.

Madison, WI

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