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

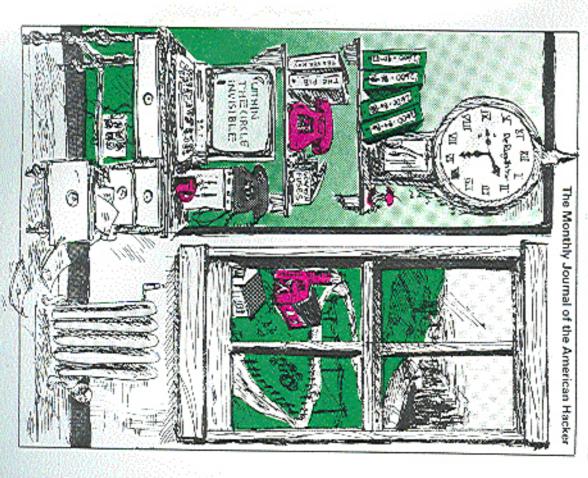
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# 2600



Volume 4, Number 2

February, 1987



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Join the staff of 2800. It is simple.

We will also accept information on floppies—call us if you wish to Just compile any information you have so it is easily understandable and send it to us. We accept handcopy and uploads

- Profiles of long distance companies
- Profiles of computer systems
- Reviews of popular security devices
- Lists of interesting phone numbers Lists of interesting reference books and magazines
- Updated tutorials on using things like ADS, CNA
- Interesting true stories
- Data that can be a good reference
- Maps of computer networks
- Analysis of new legislation

#### We would like:

- Legitimate access to various computer networks
- You to continue to send your comments and questions
- You to continue to send clippings from local papers and magazines
- You to help keep us informed

### Things we could always use:

- Printers, computers, telephones, and interesting devices
- More modernized office equipment
- \* A 2400 baud modern

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If you send us hardware, please make sure it is not stolen. We do not want your troubles.

We pay our writers a small amount. Perhaps that will be the Call us for more details. incentive you need. We also pay people who get advertising for us

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far outweighed our wiklest dreams. your particular request—this avalanche seem to take a little longer to process on our new style. Please forgive us if we the old rate or who wanted to comment people who either wanted to renew at We've been swamped with mail from

found at in a future issue, Look for a list of newstands we can be long, 2600 will be a household word have a distributor before long. Before conclusive. Our experiments with several quite well, but it's always hard to be he succeeding as well, and we hope to newstands across the country appears to This probably means we're doing

we think there's a lot to be learned from It's one of many we'll be presenting and most notorious hackers, Hugo Cornwall exclusive interview with one of Britain's This month we're happy to present an

you managed to wind up with a prison get what you asked for or perhaps how lend some insight as to why you didn't simple stroke of the keyboard. It might and how easy it is to change this with a your phone service can be categorized realization of all of the different ways among us. One thing we believe everyone can get out of this article is a the beginners and the advanced backers we must constantly try to please both doubt fail to understand entirely. This has always been a problem for us here as COSMOS that many readers will no We've also got an article on

many ways as possible. you what's going on with both—in as and the two together can be quite scary. The purpose of our magazine is to show Phones and computers are incredible

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# AN INTERVIEW WITH HUGO

Where did you get your arias from?

It was actually derived over a rather drunken lunch mislead the public, yet another member of a very an "A" because David Comwell is the real name of John Allumet pollupire original thought was that it was going to be, in order to got a number of talented brothers and sisters. So the Le Carre, a spy writer who I rather admire —he has also was going to be Hugo Comwell with an "E" rather than be a psaudonym, but I will explain genesis. Originally it with the publisher, all that I had decided that it was to

of Pensanze for fairly obvious resears. So Pensanze is less likely names I could possibly have. a Christian name simply because I think it is one of the to call it Cornwall with an "A" and Hugo was chosen as in Comwall, so that's how I came about. So we decided Personce which had originally been called The Pirates operating under the name Persance, a SIG called But at the time a number of the Elite hackers were

How did you start off as a hacker?

collecting [in a] similar sort of way but there was a it particularly as roughty or illegal but if I picked up a proper culture outlet called Hacking and I said, "UK became aware that there were not just other people curiosity and it wasn't probably until '82 or '83 that things and I would pass them around to friends out of collecting it. I ended up with a tew sheets full of these phone number or a password then I simply carried on one perticularly seemed to mind and linever thought of computers and liked to drop in and eavesdrop and no just got very curious about what was going on in big computers probably very early round about 78 and Not very deliberately. I got into communicating well I suppose I am a hacker."

the primitive sort of phone system that operated there the best phone phreakers was one of the dons and in undergraduate at Oxford and everyone I know was way. I got interested in that when I was an making technology inisbehave in the nicest possible any other interests that were along the same line? you could really do a lot. So I was interested in that interested in Phone Phreaking and that in fact one of the larger area of tech phreaking. In other words What did you do previous to hacking—did you have guess I have been interested in what I call in the book

England called bunker hunting. In other words, trying political motive in that but it was really rather a lot of to find out secret sites used by the government and also by the U.S. government. There was partly a certainly got interested in what we over here in

radio amateur license and I got also very interested in radio thing that was going on in this country. I got a got interested also in the brief iflegal citizen band

> in this country who are really rather good at it. of the stuff is now more widely known, there is a lot of actually eavesdrop on them. You know although some all the various services lie. You can't in this pountry or western world, you can buy books that tell you where the stuff that isn't known. There are a handful of people the frequency bands and then using radio scanners (fo those parts of the radio spectrum that are not terribly you couldn't until very recently and I say [ii] was great well advertised. In most countries in the world fun trying to work out the pattern of the allocation of

> > to your book?

What has been the public/business and modificespoons

How do the laws in the U.K. versus the U.S. encourage

by the government is deemed to be secret unless (it) entitled and that case is going to appeal. is basically using passwords to which they are not and recently they have done to people for forgery which at telephone hadking, stealing electricity sometimes contrast to the United States in particular, I know loss available. So there is that one aspect. The other aspect What was your motivation for writing "The Hacker's You can be done for stealing CPU time on a computer though they're widely ignored in practice. There is a is that a lot of our laws are all enveloping in theory is a hell of a lot less information that is openly How do they ancourage it? Well they discourage it You can be done for stealing telephone time if you look hadding there is no specific anti-hadding legislation. ros been specifically released for publication so there Freedom of Information act. Anything that is generated lougher about what we publish. We don't have a ess published in this country. We have got much really. It is done in two ways. First of all there is a foll this type of investigation? about Canada and that is if you look specifically at

meeting, but he wanted to do the book and at the end of could be done. I wrote him a synops s within 24 hours. work I actually had a contract thought of writing any book in fact and at the end of the all of that, you know within one week, beginning of the mind waiting two or three days till he had his editorial 24 hours afterwards he said it was forrific, would obvious reasons shouldn't be published and he sort of know, call the back and we will have a chat about it. I be serious, it can't be done. He wrote back, said I don't back not very seriously, in effect saying [you] carnot anyone want to write a book on hacking and I wrote wrote/scrawled a note on a bulletin board saying doss was a hocker by interest and a publisher by profession work I hadn't thought of writing the book. I hadn't had a debate with me and at the end of it I felt maybe it rang up, said/listed all the obvious things, why all the very very easy. The way it happened was a man who The motivation was that I was asked to do it and it was

So I would have never written a synopsis for the

## CORNWALL

a British hacker/author

and Loid. There was no great burning desire, there was book. I would have never hawked it around publishes an opportunity , so trivent alread and did it. thought about the synopsis. I thought, well why not but since there was the opportunity and I had already

on the Sunday Times rangup the head of The Computer and after that it took on a life of its own and I was from book appear very very important and very very serious comments. The man hadn't read the book but said it was competing with some pretty popular items. I several weeks on the Sunday Times Best Seller List so my amority the whole thing with a great degree of Condemns Hacker Book". This immediately made the sufficient for her to be able to headline a story. Yard Security Squad at Scotland Yard [and] asked his think it got popular interest largely because a reporter There was a great dual of interest, the book was to

of modern myth and my book happened to be around to hacking, they wanted to make hackers into some son for themselves—they badly wanted a book about a lot of other interest. I think people created the book never thought that it would do but it obviously exotes docaded that if was not a very interesting book and capture all of that interest. Though there was a great Those people who knew anything about hacking

condemisation is that the books that hadn't been very really going to disappear. wasks when the book trade text recovered, copies were around like mad to get hold of them until about a few bookshops and it created a further myth that the book widely distributed up tell then, the original print run was there, people grabboot it like crazy for lear that it [was nad begin barmed in some way so everyone was rushing very small, disappeared very rapidly from the One of the effects of the Scotland Yard

of those people was me, so there were headlines saying again it wasn't true but it all helped sales. couple of guys were arrested for hacking the Presto system and the newspaper reporters decided that one Hadker Author Ameded" and things like that and About two weeks after the book was published.

undeserved and I feel a little bit applogatic among senous hackers for sort of getting lucky. hackers the attention that the book got was somewhat It was really quite a phenomens and I do say to all

nnueros you in a sistua?? In the first book you had a softenatic for the Black Block Telecom's response to the book and how did it the sequel it wasn't there. What was British

publishers, in fact it went in three stages. It was in the Well, the decision to take if out was finine, it was the

> within Bridish Telecom found it amusing and I also have because it made everyone a lot more afert about the Security people were not displeased about the book stuff so that they could show that they were being hot and they [anticipated] trouble and removed the everything disapposited. I don't know that British reason to believe that some of the British Telepoin think to answer to my cortain knowledge a lot of people thing, that you know there are hackers on British not unreasonably that things were getting a little bit condumn [the book] and what the publishes decided Telecom did anything very much other than to values for the various components and then gradually secon's staff as you might expect so you know responsible. I think that is the way it happened. British first edition the schematic was there complete with olegom said that they didn't approve of that sort of

read this book and be aware." customers in essence to say. "Look how easy it all is, security people or sold by them to, if you like, their of the books were actually sold either to compute There is some evidence also to show that quite a few

different from U.S. hackers? How would you say that U.K. hackers would be

of all my guess is that the majority of U.K. people, U.K. majority of U.S. equivalents. essence. I think there are two areas of difference. First acquired them about two or three years after the computer orthusiasts, that have moders probably think that the difference is of sublety rather than of

expensive ones which were registered with British and that was only of limited use or you had these very nodens that were available were from British When I first got interested in computers, the only very expensive. If you had them, you either had lainly shop and you had to buy them on rental and they were Telecom. You couldn't buy themover the counter in the incitiones, ones that had been modified from U.S. use that's really a question of how modems are sold

started to get the BBS which people used 300/300. been going for a bit then in the early eighties you call into The Source or into 5 BBS. After Prestel had 300/300, if suppose that American holdynsts would looking at microl clue de grass teletype services called into was going to be Prostet which is a video text situation in the states where people would tend to be which looked like it. Of course there was the university their Lacking was either into Prostel or into systems trait they had was for that as well. It meant that a lot of system 75/1200 band. The communication software ne, most British orthusiasts, their first database they way I think is that again although it wasn't the case for So you got this two or stree year gap. The second

(continued on page 11)

February, 1987

# some cosmos documentation

of COSMOS (COmputer System for Mainframe meant as an introduction in the operation and use such as logging onto COSMOS, etc. This is operations). functions of COSMOS were left out intentionally, COSMOS hacker. Many basic and fundamental This article is intended for the serious

#### System Overview

- COSMOS aids in the following functions
- processing work/service orders and keeping maintaining accurate records (for orders) track of their status
- maintaining shortest jumpers on the MDF
- load balancing on the switching systems
- issuing reports

PDP 11/70, or an ATT 3820 COSMOS can be run on a DEC PDP 11/45,

COSMOS identifies itself by its unique lagon.

#### PASSWORD:

alphanumeric characters representing each central office. COSMOS support line. Wire Centers (WC) are 2 alphanumeric characters—try SSOX, NAOX an account on COSMOS; i.e. social engineering a where X is a number. There are easier ways to get You can hack passwords, usually 4

to do with COSMOS itself. can do that. The shell privs of a user have nothing COSMOS—only a user with the root user ID 0.1 example, not everyone can edit /etc/passwd on security hierarchy in the operating system, For capabilities of COSMOS. However, there is a program. Every user has full access to all the access to the COSMOS program. There is no security hierarchy while running the COSMOS Once you are on the system, you have tull

#### Transaction Code Format

must enter a transaction. All transaction codes share a common format. In addition, there are specific rules for each transaction as specified in To have COSMOS perform some action, you

#### Generic Format

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(continued on page 14) February, 1987

- order data, or inquiry and report data. in most transactions. Generally it refers to either The H-LINE indicates a HUNT and is required
- is required, as when telephone service is being The I-LINE indicates that INWARD movement
- is disconnected. OUTWARD movement, as when a telephone line The 0-LINE indicates the transaction requires

asterisk normally appears before the answer (\*\*) successful transaction has occurred, a double pound on the keyboard, or hit a Control-C. After a To finish the transaction, type a "."—to abort

the UNIX (I assume familiarity with the UNIX operating system) Some COSNIX shell commands are the same as COSNIX is the operating system of COSMOS

18 Opphysio - High files

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# the telecom informer BY DAN FOLEY

Cellular Phreaking

call a cellular telephone, and the call will which will ensure that bills will reach the national billing data clearinghouse of the past, as the CPC's are creating a form of fraud will soon become a thing Roaming will become more prevalent as new city know their billing info. different city from where they signed up be correctly routed to wherever in the right user. This clearinghouse will also more people buy cellular phones and use who don't bother to let the CPC in the victim's cellular ID (and phone bill). new "owner" making calls on the even the entire car, resulting with the CPC's (Cellular Phone Companies) fraud is becoming a concern of the (further in the future) allow someone to them while they travel. However this (cellular users using their phones in a Another form of fraud is from roamers source—the theft of cellular phones or Much fraud is from the same old issue of 2600 is already here. Cellular the future hinted in the December

doesn't include time and date stamping) cther" the box snatches ID's out of the using an "ether" box (so called because But there is even a simpler method than decrypt if the encryption algorithm ID signals (and you don't even need to CPC's don't even bother to energpt the ainwayes as calls are being placed. Most Some of the more exotic schemes involve reading cellular ID's off of the user's ID isn't as hard as it seemed CPC's billing. Spoofing another cellular is something that is quickly growing and represents the most dangerous threat to United States the phone happens to be-Of more interest to the readers of 2600

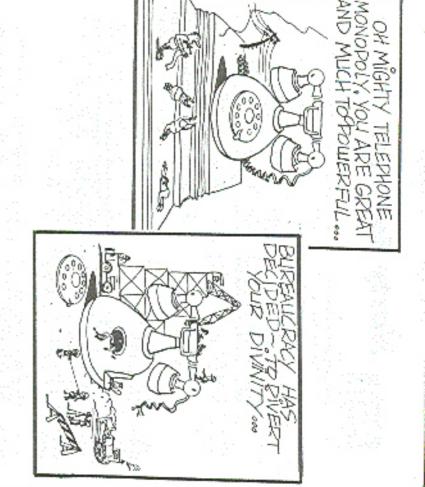
supposed to have easy-to-follow programmable. Motorola, for one, is complicity of a cellular phone repair or like "they" tell you, but instead is installation shop. For many brands of phone the cellular ID is not in a ROM The easiest method by far needs the

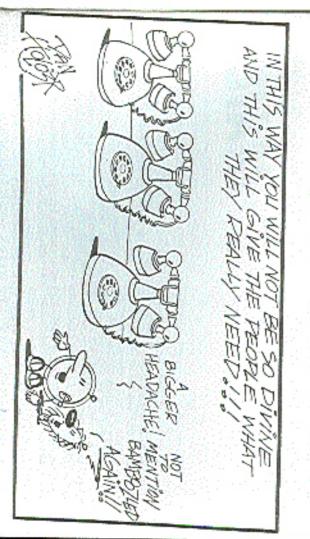
> authorities would accuse the wrong death threats and be untraccable, as the Perfect for your local terrorist to call in in a ROM, you can just burn a copy. manual. And even if the ID is encoded aiready available on the black market Rumor has it that cellular ROMs are phone's cellular ID's inside the repair instructions on programming their

Cellular rates average about 60 cents a \$1.00 a minute, rather expensive, but minute peak. they do provide a specialized service. marine operations. Airtime averages with a switching office in Lafayette, Brownsville, Texas to Mobile, Alabama world encompasses almost the entire business, fishing and other commercial the coast. Coastel plans to target the oil platforms out to about 160 miles from Louisiana, and cell sites on offshore Gulf of Mexico. On July 15 Coastel (sic) offinimications began serving from The largest cellular system in the The Largest Cellular Companies

and Dalbs. It also got about 500,000 Washington, and Ameritech in Cheago Philadelphia and Baltimore Boston and New York, Bell Atlantic in Bell now competes against Nynex in and all sorts of things having nothing to paging customers in nineteen cities. US do with our dial tone). Southwestern investment in real estate, manufacturing local phone revenues we subsidize their cellular rights in other cities (with our Bell Operating Companies) purchase academic as more RBOCs (Regional carrier, and saved one for the future. However the distraction has become to the local telephone company (the wifeline carrier), one to a nonwireline frequencies into three bands, giving one FCC originally broke the cellular nonwireline rights for \$1.65 billion. The Corp. It bought out Metromodia's company is now Southwestern Bell The largest cellular telephone

West also competes against a fellow (continued on page 16)







# Gen Nasty Business

178 (475 8700) 178 (4877) 178 (475 8700) 178 (477) 178 (475 8700)

February S. 1987

Dear ECI Customer:

tedustry-wide problem that has been increasing steadily distance calls on enother individual's account As RCI continues to grow and expand its long distance scruices, we have became susceptible to a problem facing all long distance companies. Tell Fraud - or making long. Suct Surges to

on our customers' lines. Similar to a bank FIN code customers will be required to did their PIN code following their authorization code rengares are concerned about roll Franch, and are adding 3-digit identification Numbers (FIN) to help prevent abuse stoners' lines. Similar to a bank FIN code.

Personal identification number one control of the using we will also tell you on what date you should begin using Forsonal identification Number and disling inscriptions

Custorer Service Department, toll free, at 1-800-828 2733 Work with you to re-program your equipment. To sword a service interruption, please contact dudy which in our other questions you have about this program if your telephone equipment is programmed to dial RCI scores numbers and authorization codes, we will have to February 18, 1897 . Judy will also be able to answer any You blows of

MC1 Corporation Customer Service Assistant Manager Suzanne Crouse

DALLAS TX 75247 SNOWNEED TODS

E-MAIL

02/03/86 18:43:37 XIAA 02/03/86 18129:52 1063 323

Attention: Us Sprint Customer

previous usage. part of our daily maintenance program. A recent review of your account shows a significant increase in calls as compared to your A beview of the number of calls made on each customer code is a part of our daily maintenance program. A recent review of your

We were unable to contact you by telephone today to discuss this, and because we were concerned the calls being made on your code were unauthorized, we have suspended the code in question and will Department: assue a new code as soon as you contact our Customer Service Call us toll free at: 1-800-531-4666

We apologize for any inconvenience caused by this procedure and thank you for your continued business with us sprint.

Sincerely,

GET THE DATE CORRECT! COUPLE OF WEEKS, SOME, LIKE SPRINT, CAN'T EVEN WE SEEM TO BE GETTING LETTERS LIKE THESE EVERY

# CORNWALL (continued from page 5)

things like that. networks like JANET (Joint Acadomic Network) and bit longer to discover PSS and the various university interested in big computer networks so it look them a on the whole British hackers weren't so much services, Prestelland type U.H. services to look at that also think that because there were so many video text

what they are looking for. but a slight difference of preocupation in terms of In example there is very little difference in the culture

graphics which was a function of the belief that got a 40 by 24 distracter display, these rather curious computers we their television sets. Which is why you enomous ambitions, but its ambitions were all formed extremely interesting as a matter of history. It had Prestel visualizes and suffers from it. People accessing visualized the home computer as being possible, so about the year 1975 which was eons before anyone You could go on and on and on about that. Prestel is As a system, what do you think of Prester?

much." hackers admire them so can somehow fight back, that's the reason why non-...this idea that the hacker

that 1k of display memory was really as far as you memory was going to be unboligrably expensive and

System called a gateway which is essentially, the way shopping and what have you, but you have to do it was a curry. For example, you can order things, all the to be doing on a public across datacree, unbetterably its 1975 format and a bit of the things you would want to become more sophisticated, remain competible with knowledge about computers moved on fast, Prestel has shock with all of this sort of thing and if you tive numan simple numeric routing commands. Because Prestel is structure and everything is available via pages or very you got this curious electronic card the type of had to have all your commands being sole numbers. be expected to actually type words into a machine, you Also that the ordinary untrained person could never

> so on and so forth. Any more slightly more complicated gateway opens to give you the arewer and closes again string is processed in the remote computer, the command string from you and it closes, the command it works is that the gateway opens to receive a negraction is unbelievably slow

going around in gas driven internal combustion horse and buggy type of system when everyone is services i suppose it sinct too bot, it's like retaining a behaves in a ndiculous former, so for certain types of the front and processor, but it looks ridiculous, it (ou could run an online service with wew data as

the other ordine services software and it's no effort to call into Prestel or any of obviously got video text, Prestel in other words type on personal computers. On my personal computer movements but it will be relying on its installed uses moving financial data. It will make very, very small base. The way people are using it now is visionulators particularly the travel trade; it's quite useful for fast but I think it is going to remain as a historic curiosity. it's fairly [acceptable] in one or two industries don't think it will do, they're trying to make it evolve Can you see Prestel evolving from what it is now?

the as well as getting the service. have to buy his hardware and lood it down the leased way the supplier wants to let you have it is that you bound in that if you want to get the service then the obviously the most higharine area, is still very tendware publishing for the financial community, which is Well, you have a variety of systems, electronic now does it work over near, everything is online? crough people out there to make it worth my while?" in a CD ROM type format and anything clse that suitable they would also be thinking about publishing videotext format, and of course if their material is becomes available. It's merely a format and the Electronic publishing in the form that you mentioned discision to publish in it is "well, are there going to be publishers nowadays publish in a variety of formats, they publish in an online format, they publish in a thing, this is wonderful." In fact, most electronic Thrist Almighty, we're really going to have to use this I just can't see any electronic publisher saying

computer system clevery, you can get the services available and then if you can fiddle with a personal leteret or lymnet. it via PSS which is the British Telecom equivalent to Other forms are basically available online and you get always edibilion/denoistration lines, distrip lines other services. You can hack into them because thore is pressure to get rid of that and that is applied to most That's the case with fleuters, they are under a lot of

(continued on page 15)

Page 10

## Some Suggestions

etc. with the equivalent in 800 digits than originally. appears that some of them have more digits for their access code since it numbers and also tell us how many exchanges like 950-1088 or 950-1033 May 1986 issue; 3) Put out a list of with or without a computer like in your its death; 2) Teach how to hack a code what to do with a blue box now, before this year if you could: 1) Show people superb magazine. It would be a big plus I would like to thank you for your

could explain how they avoid CCIS. Santo Domingo, I wonder whether you XXX-XXXX ST and reach their party in trunk it with 2600 hertz then KP 809 517, 219, 601, or 505 area code and access code plus a number (with the fellows dial 950-1088, enter a valid observed in Manhattan some

is a self addressed envelope so that you with a little ingenuity you could still was changed to confuse people but could provide me with a reply. greatly like to know how many digits invalidated all my codes. I would 1986 on which day their computer codes which I used until December 24, explained principle. I had kept a list of nack numbers according to the same that article and in June the message apparently some executive at MCI read there is an algorithm by Nynex Phreak they use in their access code. Enclosed which was one of the best. It was good for one month as described, but In your May 1986 issue, page 3-38

The Perpetrator

get but we simply do not. envelope. We wish we had the time to reply personally to all of the letters we Here's your reply in a different

well. We'll be doing this again shortly. As far as how many digits are in a 950 numbers and 800 numbers as We've published lists in the past of

> and our Sprint codes are nine. Beyond pattern. Some even have more than somewhere changes their code every day some long distance company be a full time job to keep track. Almost that it starts getting complicated. help, our MCI codes are all five digits codes of varying lengths. If it's any one pattern. And quite a few have particular company's codes, it would

locations to a few locations, but they past as to how blue boxes are used become fewer every day. They do still work perfectly from a few We've printed full isntructions in the

### Some Numbers

874-3751—Computer Science State Computing Service 0000, 855-0000, 856-0000-weird 836-0000, 837-0000, 850-0000, 854-856-0720—Ticketron Buffalo 681-8700\_BOCES 878-5533 and 878-4611—Buffalo Buffalo (VAX/CYBER) 688-3000 to 688-3040-University of in the 716 area code: Here are some phun numbers to call

And does this happen in other area 0000—is there any explanation to this? with weird tones and suffixes of I don't understand these numbers

Silver Bandit

phone company. Why don't you call belongs to and why it's on your bill demand to know who that number bill? Then call the phone company and one and have it show up on your local are probably test numbers from the That's the easiest way. Yes, it happens everywhere. Those

## On Cellular Phones

publish articles on cellular telephones! The only thing wrong with the article Congratulations for beginning to

#### information on cellular telephone metropolitan area. The lack of detailed phreaking in this publication has thus phreaking has been going on for about knowledge, cellular telephone phreaking is not in the future. To my phreaking world". Cellular telephone was the title-"a look at the future tour years in at least one major far placed 2600 in the dark ages.

travelling on a highway. for short duration or while you are from a different location every time and from a fixed location and it is virtually most immune to tracing even if used outstanding. Cellular phones are the instead of using land lines is telephones for phreaking and hacking advantages of using cellular phreakers were very successful. The the dark ages of 1961. The same MF impossible to be nailed if you use one tones were used in 1961 and the essentially the same as blue boxing in Computer assisted blue boxing is still

20006, or you can call them at 2001 I Street NW, Washington, DC potential should order all the 202-457-4900. publications on the subject from EIA using cellular phones to their full Standard CIS-3-A. This publication has with IS3: C. Everyone interested in detailed into you should consult EIA been outdated and has been replaced You mentioned in the article that for

The New Age Phreaker

cellels yel? Newspeakers among us begun saying doubt they exist. By the way, have the cellular phreakers, though we don't We have yet to hear from a group of

#### ANI Trouble

Dear 2600:

didn't read the Miami newspapers Miami regarding his ANI, evidently November issue, signed "Frustrated in the "Letter You Wrote" page, in the The man who asked the question in

> accused of stealing school funds trator named Johnny Jones was Unknown to him his telephone had Some time ago, a school adminis-

Herald newspaper: This is an excerpt from the Miami

explained that if you call the number, conversation with his friend and whether his phone was tapped. Jones busy signal, your phone is tapped: mentioned the number in almost every he had a secret number that told him conversations disclose, Jones believed Johnny Jones continue to call his your phone is clean. If you call and get a Because, transcripts of those suspicion that his phone was tapped? riend in Maryland despite the Why, you may have wondered, did

your phone is tapped. simply means the line is busy, not that one."As for the number Jones called, it you call it and get a busy signal, it numbers and a rumor for almost every connected. The spokesman says the see if they've got the right ones phone company has lots of test and that number is a final checkpoint to installers have to hook up a lot of wires. Bell spokesman. When they go out, telephone installers, says a Southern Wrong. That's a test number for

switching station off Red Road in South Dade, OK, OK, Call 1-200-666-6763. located in some supersecret vault in Langley, VA. It's in an electronic The number, incidentally, isn't

If you have a letter to send to us, feel Letters Editor, PO Box 99, Middle long or we'll have to chop bits out sland, NY 11953 the address to write to is 2600 ree to write. Don't ramble on for too

#### Error Handling

with an error message and prompt for correction error does occur, the transaction will respond indicates that the preceding line is correct. If an underscore at the beginning of the new line. This ready for new input, it will respond with an the transaction will disregard all input and exit to disregard the present circuit; 4. Enter a "."teed to ignore (checks rest of line); 3. Entera "." Re-enter the entire field correctly; 2. Enter line-When an error occurs, you have 4 choices: 1 user frequently. Each time the transaction is Service order transactions interact with the

#### H-LINE Inputs

Category 1: ORD, DT, DD, FDD, OC, DT, SG SOE/CSA/TSA is being ngidly defined according information for the order. fundamentally different types of order/facility to three categories. These categories contain H-LINE input for the service order trio

Category 3: PW, RW. Category 2: US, FEA, OCF, CAT, BTN, SS, A0 RZ, FR, GP/CG, CTX/CG/MG/NNX, LDN, RFI

Category 1 items are primary—once defined they cannot be changed by conflicting category 2 and

### Service Order Transactions

Transaction	Definition
308	Service Order Input
T0Z	Telephone Number Assignment lists
C02	Line Equipment Assignment list
SOH	Service Order withheld
SOM	Service Order Modification
300	Service Order Cancellation
SOW	Service Order Withdraw
SCM	Service Order Completion by MOF
SCP	Service Order Completion by PAD
SCA	Service Order Completion Automatic
SCF	Service Order Completion for
	MOF automatic
80	Spare Cable pair inquiry
66	Change Due Date
墨	Bridge Lifter Assignment Inquiry
Ξ	Line Equipment Assignment Inquiry
M	Telephone Numbers Assignment Inquiry
M	Tie pair assignment inquiry
E02	Facility Emergency Assignment list
	for backup

MAL	
Manual Assignment Parameter Manual Assignment list Total Service Order Withdraw	
Assigna Assigna	
50.00	

#### Iransactions Defined

orders are: NC, CO, CH, F, T, SS, RS, R, RF Reassociations are treated as driange orders. Establishes a pending service order. The types of SOE—Service Order Establishment

and either DT or OC. Optional facilities: P.W. RW, F.D.D., AO, FR, SG H-LINES must contain ORD, DD, and OT

BTN, RC, RE, RT, STC, STN, STO, OCF, LCC Land 0 LINES may contain US, FEA, CP, QE IN, RZ, NNX, PL, TP, TK, BL, SE, CON, MR

an input of "RW C". recent change input center may be flagged with ESS orders requiring coordination by the

### Example of an NC (New Connect)

TO THE STATE OF THE WASHINGTON OF

## Example of a CD (Complete Disconnect)

an inferior of control and the

### Example of a CH (Charge):

R 300 QUITTAN DON BEO DONNERS NO. O THE STATE OF THE OWNER.

### Example of \$5 (Suspension):

Martin Service de la contraction de la contracti 

#### numbers for a NNX code, and directory number List the indicated number of spare directory TDZ—Telephone Number Assignments List

using the prefix LC. Up to 25 directory numbers can be specified.

6 and SOUTH BALL IN THE CAN be used to 200

(continued on page 20)

## CORNWALL

(communed from page 11)

Have you planted any future books on computer on them as well. So that's basically how it works. out via postal, it comes out via its own data network and there are other data networks with other services available in the video text format. That doesn't come services that way as well for example the equivalent to TRW for credit checking data is called CNN, that's format but are not Prestel and you can get a number of There are also deta-nots that use a Prestel like

interest though I hope they are going to read it. and I don't think hackers would find it of any direct manifested for hackers. This is a book on computer longue and cheek book. "Out of the Inner Circle" was expiorage and fraud. It is not going to be in any way a propuraging those people to the belief that they can't drief executive officer of the CDO market and that is moment called "Bata Thell" which is intended for the Well, I am writing a much more serious book at the security and it is intended for other executive officers alleged to be a book on computer security, but is frough it is much more preoccupied with industrial leave data security to a mere technical functionary

promote hacking to what I believe is its rightful code to cope with it. I still so: that there is a lot of room rather the lack of it and lack of responsive criminal ram to anybody therealives with, without actually causing any serious plane something for a tiny, tiny minority to aimise for froliding with technology and I really like to victims. I want to talk alot about police training or computer criminals are normally employed by their that must computer crime is committed by insiders, One of the things I do want to get over is this notion

copretly well-everybody, everybing, and every move against computer bureaucracy and having titles built up authorput forward the premise that there is no defence In the book "The Rise of the Computer State" the Louid you see hackers as a possible detense?

a martiness are not necessarily terrbly reliable. form before. Not really, I think the mode of defense is and although these files can be built up, the files Trave been about this question in a slightly different

provide that sort of detects which you were describing why I think there is so much room in people's hearts for the leader is that they believe the hacker is going to Somewhat dublous one in all of this. One of the respons tendy reliable. The value of the backer I think is [a] screen in front of thom they don't know whether it's much goesp that although they can have it all on the that they collect together so much information and so One of the great problems with interpretive data is

After a going to be free one and future king. Hobin a very potent figure. Robin Hood is a very potent figure, and the potency of these things is that King arout tok helps arong, for example King Arbur is l actuary wrote a piece for one of the papers about it

> non to give to the poor and that probably is why he is Hood, but the great thing was that he stole from the Hood, you know not a great deal is known about Robin

now and then though what a hacker can do is if he is are sufficiently good or sufficiently powerful or here is that element of defense that you're looking for that is held on computers and maybe just enough that very tucky, expose the su-picity (of) some of the power sufficiently able to combat that, I do think that every tremso much. I am alraid I don't believe that hackers ight back, that's the reason why non-hackers admire I think it is this idea that the hacker can surreliow

people/individuals in the computer age is not for bly But on the whole I would say the autlock for

#### by Hugo Cormwall The Hacker's Handbook

E Arthur Brown Company, Alexandria, MN

### Review by Roland Dutton

meantime he gives us a lively and entertaining more knowledge." In this he succeeds, and in the material, and point you in the right directions for view of the world of Botish hacking. essential background and some reference the appropriate attitudes and skills, provide the reader "grasp the methodology" and "develop to its title. The author's stated purpose is to help Strangely enough, this book actually lives up

mariual, a very good intermediate manual, and entire book appears to be an excellent beginner's neither too difficult for the beginner nor so simple and the types of services or "targets" that a reading for those who style themselves enjoyable though certainly not indispensible that the seasoned system oruncher might not explanations are clear and accurate, and are hacker might be interested in. The technical communications, the typical hacker's equipment the technical details of computer learn a few details from them. In general, the pagnenger, The early chapters of the Handbook discuss

here, and it's always interesting to know what's none of those types of services are available chapter is interesting for American readors since intelligence" and "hacker's techniques". Then vidtex (also known as viewdata or videotext) computer networks and violex are discussed. The Iwo more chapters discuss "hacker's

(Constituted on page 21)

February, 1987

office left open. The company has to pay which permitted any INWATS (Inward month for the "vanity" number and a complaint center during the day, and at would reach the nearest ITT billing every prefix represented an area code. number by the NXX part, XX2's were geographical location of an 800-NXX for the normal 800 INWATS lines and night the call could instead reach a main placed the call. Thus 800-DIALITT different destinations depending on both routed anywhere in the US, and even to introduced "Advanced 800 Service" men an extra couple of hundred a the time of day and where the caller Wide Area Telephone Service) call to be intrastate, XX7's were in Canada, and lew cents for each translation of end However, about five years ago A1&1 It used to be that you could tell the

suffer. If your CO isn't equal accessable yet, it just kicks the call onto the nearest belongs to Bargin Bob, guess you gotta Don't know what happens either if your would really make it tough to route. Bob's Telefone Kompany: Hopefully exchange gets taken over by Bargin 800 service. I don't know what happens exchanges will undoubtedly be grabbed get the XX2 exchanges (as these are 444, 456, 627, 666, 678, 727, 759, 777, 234, 283, 284, 288, 289, 274, 333, 365, which have any of these "exchanges". call was routed to AT&T no matter switched over to equal access your 800 clever little phone number "word" you get to keep the old provider, but this by other carriers as they begin to ofter Sprint gets 728 and WUD Metrophone 825, 876, 888, 937, 950, 955, and 999, US CO must route all 800 calls to MCI what your default carrier. But now your d your company's 800 number's tilled with intrastate WATS lines), More gets those to 988. The individual BOC's Until Fall 1986 if your CO was

intra-LATA tandem site for the proper

based on all this info. The local teleo nearest tandem switch and get routed company office. When this happens, all as well as sending it to a different the originating point or the time of call, through a different carrier depending on buyer can route his or her incoming call routing service. will get the money for providing the 800 calls will have to be sent to the new Advanced 800 service the INWATS this. When Belleore finally finishes the However, don't bother to remember

but intrastate INWATS started in 1966 the December 2600, page 3-95. The first provides this. Trivia fact 2: INWATS geographical determination) are of the England (to the US, International fact number I: INWATS numbers in grouped according to geography. Trivia your 900 calls, which were never interstate INWATS lines were in 1967 was not introduced in 1967 as stated in form 0800-XX-XX-XX. Only AT&T INWATS further confuses the As far as I know only AT&T gets

phone line by time or location.

Airfone Update

expires at the end of 1987, and the ECC 300 plane phones and the 65 ground decision retusing permanent frequencies stations even though there is no will not reconsider its January 1985. limbo. Airfone's experimental license telephone for use on airline flights is in cellular frequencies. Airtune hopes to be allowed to use provision for frequency allocation. Airluite expects to continue with over The future of Airfone, the pay

#### the Greedlest! Remember

# More Nasty Business

Anthentheothernonnennennennennen sannanen

APRINISTRATIVE MESSAGE

ROUTINE

4- 0717132 SEP AL 278

EM CHO MURRINGTON DC

40AUK 01

BECLAS . //molepo// . ..

39/86B 40AW TELEPHONE CREDIT CARD FRAUD

INVESTIGATIVE BERVICE ACCRESSIVE INTITIATIVES BY COMMANDS AND INC MILE OF THE MARALL

TALEPRONE SERVICE FOR OUR PROPER TO CALL ANYWHERE IN THE CONTINENTAL CHIEF SERVICE FOR OUR PROPERTY. WAYS PROPER IN THE SETTINGE OF THISPHORE CONDITIONS WITH THE TOLERATED. VIOLETORS STRTUTES, AS WELL AS ADMINISTRATIVE ACTION. COMPANIES AND BRIMSING DISCRETE TO THEMSELVES AND THE MAY EXACTIONIZED CREDIT CORD HOWSERS ARE STRAITING FROM COMMUNICATIONS ARE SUBJECT TO CRIMINAL PROSECUTION UNDER THE UCHJ AND CIVIL

PUNISHMENT IS MEEDED to STEM THE TIDE. AR ACCRESSIVE PROCESS OF ROLLOLLON, APPRENENTION AND

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# NEW DEVELOPMENTS

a profit out of absolutely nothing. While out that this is indeed the very last we must commend them for their evercompany has figured out a way to make present ingenuity, we must also point They've done it again. Our phone

you're paying for not being disconnected charge for touch-tone service is. Touch sophisticated enough to operate that older phone systems. They're not whether or not you pay for them on why touch tones work regardless of tones useless if you haven't paid. That's access in the first place and the only way service. But the fact is that we all have fooled into thinking they're getting operate a lot laster, yet people can be tones make phone company equipment from the service. not actually paying for the servicehorrible machine. Remember-you're invent a machine that makes your touch the phone company can change this is to "access" to some kind of premium We all know how unjustified the

cases. Just like that, Well, you can kiss available, you'd be able to get it in most "gold numbers". Do you remember the those days goodbye. particular number? If the number was installed and ask if you could get a days when you could get a phone The newest ripoff is a feature called

number that is easy to remember theery little New York Telephone translates into a word or phrase." needs, perhaps trying for a mumber that combination of numbers to seit your Or you might select any available 7-digit because of repeating or sequential digits. pamphlet says. "you could have a "For less than a quarter a day," the

customers. Maintenance charges, no ever thought of selecting their own numbers or \$6 a month for business to charge us \$3 a month for one of these were smart enough to come up with the idea, they've naturally carned the right phone number before! And, since they Isn't this brilliant? As if nobody had

apply for each 3-number search beyond guess what happens? "A fee of \$20 will more. If the first three numbers you ask guarantee you'll even get it! It could go apply for a number! And there's no the initial one," Twenty dollars just to necessarily mean they're being used). for gren't available (which doesn't That's not enough? OK, here's some

is certainly not one of them. It's tune going to clean up on this if people are do something about it. elected officials who have the power to some nasty letters were written to our foolish enough to fall for it. One right While some changes in service are have always been free develop charges. after the other, we're seeing services that necessary because of the divestiture, this Obviously, the phone company is

care to speculate on what they're going Gold numbers indeed. Would anyone

overnight. It's called PRS and it's being customers just love it because the actually a recording! Each operator directory assistance operator in those recording sounds so friendly and upbeat Refreshes and Satisfies." They say the like to refer to it as "the Pause that used by Mountain Bell and Pacific Bell service that has sprung into being that picks up the phone! What's left? that gives the number, now there's one machines. There's already a recording turning those poor operators into Give us a break! It's just another way of time to rest between calls. In fact, they the company, gives the operator some when they pick up. This, according to records their own "greeting" and it plays regions, the voice you hear saying, "Can System and means exactly the opposite. PRS stands for Personal Response t seems that when you call up a help you?" or "What city, please?" is Meanwhile there's an entirely new

# 2600 marketplace

System Practices and other such trade/purchase. Also looking for Bell Box 7528. Middle Island, NY 11953. paraphernalia. Write to Bill, c/o 2600, PO PBX's and switching systems. Willing to DOCUMENTATION on electronic & digital

Please describe the type of info that you have and name your price. Mr. B., P.O. Box which has not yet been published in 2600. WANTED. I will pay a modest fee for into CELLULAR TELEPHONE INFORMATION 2895, Brooklyn, NY 11202

and DAS 8298L1A, SERIES 5, 84 MG 04 DATA MTG. SD-10247-01-J23, SERIES 1 says: 44A2 Series 1, Data Mounting, SD-Interface. One has label on the outside that Send info to: P.O. Box 50346, Rafeigh, NC labeled: DAS 8298-L1A, SERIES 4, 81MG3 83 MG 12. The boards on the inside are 1D247-01-J23 and the other says: 44A2 two modems labeled Dataphone Channel MANUALS OR INSTRUCTIONS NEEDED for

239-6991 measures/TSCM in the trade parlance, 425 equipment he can buy cheap! Gaslamp from 2600 readers who have electronic Private Eye is into Electronic Counter-PRIVATE INVESTIGATOR wants to hear F. Street, San Diego, CA 92101, (619)

vol. 1-83 plus supplemental reports and allow 4 weeks, to: Pete G., Post Office Box copies sent via UPS or US Mail. \$100 schematics. Approx. 400 pages of quality 463. Mt. Laurel, NJ 08054 (payable to PEI). Cash sont same day, others includes delivery. Send cash, check or MO TAP BACK ISSUES - complete collection.

making it too long) and we'll print it! And, if no businesses! entire page to yourself Only people please. placel And it's free to subscribers! Just waiting for! A new service of 2600 HEY YOU! This is the chance you've been send us whatever you want to say (without for something to buy? Or trade? This is the Magazine. Got something to self? Looking you send in the only ad we get, you'll get the

Deadline for March issue: 3/1/87

reviews

## Output example would look similar to this:

100 CO. 20.00 CASTANO MICHAELEN THE PROPERTY OF LAND COMP. HERMANNE PROTESTS ASSESSMENT COST OF PLANS WALTER STREET, WARREN OF Wichell Com Editable

### SOW—Service Order Withdrawal:

identifies the order. Valid circuit identifiers are: Order number must refer to the latest version Withdraws most recent version of a service order The H-LINE circuit ID

Example

TN, XN, PL, CP, OE, and TK

N 30 M-0010/JN 524-1822

## SCP—Service Order Completion by PAO:

of an order by PAO. Record in the Service Order File the completion

 Standard SXX H line input example:

PCE if one Chantaly Street,

## SCA Service Order Completion Automatic:

which have been or are not required to be current date Jeopardy status, and are due prior to or on the completed by the MDF, are not in a held or billiers trial completion on all service orders

URD, and SG. dates. Additional options are OT (order type) SCA will complete orders due on or between the Iwo due dates may be entered on the H-LINE;

- aldlugy

ACC STA

[complete all orders on or before this due date]

Example 2

F 30 31-31-67-01 AC ACADA

(complete all NC (new connect orders)

Cold—Change Due Date:

Example Change due date of a service or frame order

100 01-01-61 P. COR. 145 T. LUCKLIST CO. 1850 4 8

#### Output Example:

26-70-73 Nov 210 CLUCK-83 (8)00

## NAI—Telephone Number Assignment Inquiry:

compatible with the input specifications. Provides from 1 to 25 spare telephone numbers

or RZ entries. The status of the TN supplied will Input is an H-LINE with the TN type and NRX F. be modified to reserved if \$1 is specified on the

crample

KITT BONG STORE RE i i

## This shows first available spare in prefix 534.)

## MAP—Manual Assignment Parameter:

will constitute the PAD Open-of-Day report Permits the PAD to establish the parameters that

(for line equipment) THE SCHOOL THEF THEFT ON THE

H 2740 LUMBS DA. H for telephone numbers of type B, 10)

their contributions.) Thanks to Loki, Evel Eye, and Sir Galahad for

kinds of other things to your personal systems that are capable of doing all comments on them all. ines. We welcome information and how it can effect and disrupt their means to the average person and more time to just what COSMOS ives. There are many other computer In the future we will be devoting

office at (516) 751-2600 Island, NY 11953-0099. Or call the Write to 2600, PO Box 99, Middle

> networks, which are similar to Telenet or going on elsewhere. As one might expect from a networks centers around the British public data British author, the discussion of computer

conversations Hoxha Automobile and Tractor Combine in Albania, and some typical amateur radio and you will be able to tune in various stations the book show a news bulletin about the Enver transferring computer data. Sample listings in that use the international short-wave bands for receiver and an interface (which starts at \$40). ordered from TRW. You need a short wave when you're not moving satellites with tank parts but just an interesting way to use your computer radio teletype or RTTY. This is not really hacking. discusses "radio computer data", also known as security officers chasing after them, one chapter And for those hackers who have too many

expand his or her horizons. Here's one fun idea "Hardware Tricks": that rarely gets discussed, under the heading of techniques that the capable hacker can use to Every chapter always has one or two ideas or

diagrams, a soldering iron and perhaps a who is propared to mess about with circuit computer hardware and general electronics, and further possibilities open up. volumeter, logic probe, or oscilloscope, still "For the hacker with some knowledge of

Recording you can analyze later at your lessure. microphone, and a tape recorder. Radios in the An inductive loop is a long piece of wire wrapped vicinity of a telephone or line will give you a loop with a small low-gain amplifier in the a physical phone tap. Alternatively, an inductive communications without the need of carrying out vicinity of computers, moderns, and telephone strair, cheap radio receiver (MW/AM band), a mes can readily pick up the chirp chirp of digital "One of the most useful bits of kit consists of a

> without being physically attached to the line. telephone handset and records the conversation suction cup microphone that sticks to a around in circles placed next to the line that you want to listen to. A typical inductive loop is the

communications within our grasp. better understanding of the magical machinery that places all this tintillating tele Hackers on both sides of the pond will get a nonzons, or who just need some new ideas book for those hackers who want to broaden their Overall. The Hacker's Handbook is a good

P.O. Drawer 531 by John J. Williams, MSEE Mamogordo, KM 88310 Consumertronics Co. urbmatic Teller Machines III

Review by Lord Phreaker

convenience and lower costs to banks of using grown enarmously as ATM use expands. ATM's, crimes involving these machines have Amoricans using them. But along with the added will be \$550 billion worth of ATM transactions banking industry, with more than 58 million per year. ATM's are becoming a major force in the 500,000 ATM's and Point of Sale terminals wave of the future in banking. Projections aim at POS) in place by the year 2000. By 1990 there Automatic Teller Machines (ATM's) are the

will become a major criminal activity. becoming the focus of criminals. ATM fraud soon muggings and other crimes directly against ATM as \$1 billion. These figures don't include \$70 and \$100 million, and estimates run as high veritable cookie jar," these machines are users. With \$50,000 in a newly retilled ATM, "a Reported ATM orime in 1983 was between

which include ATM's are instruments of Satan all forms of EFT [Electronic Funds Transfers, extremes, as he states that "I strongly feel that public. His apocalyptic visions get carried to growing area of fraud poses to the American series of apocalyptic warnings about the According to his "Background Information", John Williams is very convinced of the danger this repercussions of this boom in ATM fraud John Williams begins his pamphiet with a



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#### reviews

ravings one realizes that there actually is some dismiss. However, once one gets beyond these seriousness of the work and make it too easy to entertaining reading, they defract from the home. Although those claims certainly make public to prefer using ATM's, they will raise suppress stories of ATM fraud losses. ATM by the Antichrist." These dire forebodings are useful information here. freedoms and privacy" as the ATM invades the He also warns against the "ominous risks to our charges to the oustomer for ATM transactions Williams claims that once banks have gotten the dealing with live human tellers: In addition transaction costs are much less than those claims it is in the banks' best intensts to the banks and other capitalistic enterprises. He reterences to Big Brother. Williams also dislikes interspersed throughout the text, complete with and must be destroyed to prevent enslavement

many ATM scams work is helpful, as most of the discussion on EFT laws. frore common or minals is indeed valuable, as is fraud perpetrated by bank employees as well as victim. The section on protecting oneself from Pappen so one can avoid becoming another signs of ATM fraud in progress or about to revealing his PIN. He also lists several warning them involve somehow tricking the victim into improper safety measures. The section on now can probably successfully sue the bank for violent orime occurs within the ATM lobby, you days of maximum withdrawais with your card against ATM users by muggers. For example, he of the suggestions are common sense, but many dealing with protecting oneself from fraud. Many suggests that one never withdraw funds between especially concerned about violent crimes Williams also addresses your legal rights. If a I Cand midnight, as criminals can then make two people don't even think of using them. Williams is One area where the book excels is the section

The technical section is interesting, but not very useful. Williams focuses on the Diebold ATM, which accounts for about 45% of installed ATMs, but one wonders if the information is out of date or only applies to one model. There is a discussion of several other models as well. He does enter into a useful and interesting explanation of ATM card magnetic strip formats.

as well as encryption schemes. This really is the most interesting and informative part of the entire booklet, as he in depth discusses PIN encryption and data formats. The technical sections on how ATM's and ATM networks operate is also interesting, although not specific enough.

are just the same as for pay phones (or any other rest of us). Many of the physical attack methods was especially vague, and much of the material section on computer related break-in methods have been repaired. ATM security seems to be a que to programming mistakes which probably of the successful methods used in the past are resistant), and are really inhalely obvious. Many are only fire resistant, not burglar or tool armored object, though surprisingly many ATM's out an easy way to break into an ATM machine was too generalized, and could be applied to any patched as soon as they become apparent. The rapidly evolving field, and major holes are investigation on the topic anyway (luckily for the vague that you would have to do much more forget it. Most of the methods are sufficiently If you bought the book with the hope of finding

seriousness of the topic Of the diatribes which detract from the merely cute filler. My suggestion to the author for shots. Williams often plugs his other books in the have nothing to do with ATM fraud, and are amount somewhere. Many of the clippings really useful to scan through columns of clippings extemporaneous material. It isn't especially the ravings were removed along with a lot of the phreaking"). This could be a better investment if is distracting (admittedly, he also plugs 2600 as work, as well as America's Promise Hadio, which any other source. The diagrams aren't extremely worth, much of which is impossible to find from very small print, containing some information of ravings. Each page, however, is two columns of dollars is a lot for filteen pages (plus a three page Automatic Teller Machines (Visito out out much telling that so-and-so stole such-and-such helpful, mainly being cartoons and publicity feedback questionnairs) of badly xeroxed wonders if it was worth the cost. Twenty-five the best source on phone and computer When one comes to the end of the booklet one

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