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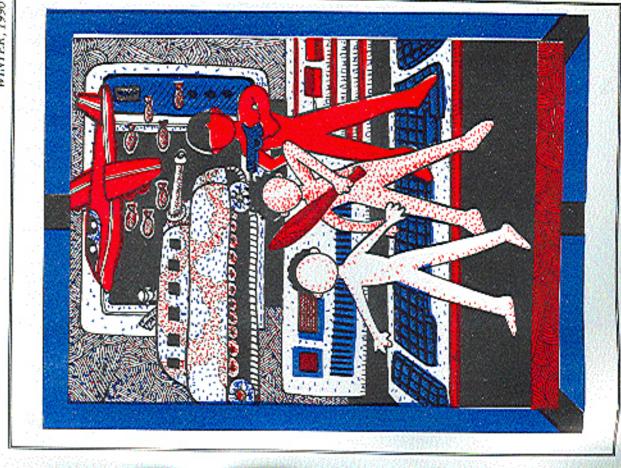
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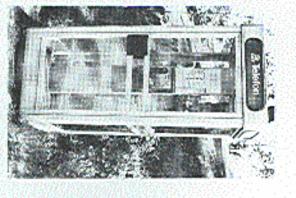
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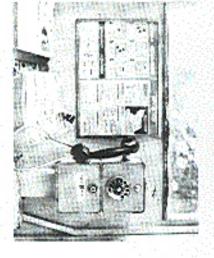


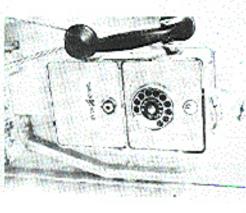
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is Shout Outs: The subterranean drapter: Find the Power, dd: your Day will all come, we promise; SS; thanks for making it interesting; Franklin; the few who have the strength to face the many; Screaming Target and the future; the many interesting has been and the future; the many interesting the many interesting the future; the many interesting the many interestin

Winter 1990-91 2600 Magazine

politica

campaign strategy of the New access to files detailing "campaign contributions and the 1991 Land was apparently able to gain July 1988 and the spring of 1990. files "many, many times" between staffer, Jeffrey Land, is reported to belonging to Democrats. The GOP gained access to as many as 1,000 Jersey Senate Democrats. have admitted tapping into their computer files and documents *Inquirer*, a Republican staff member According to the Philadelphia

anyone's attention or deemed this appropriate to bring this fact to doing. "No one thought it to constitute an ethical breach," the nothing wrong with what he was known by his superiors who saw indicates that his activities were that a secret legislative report What's particularly appalling is

you be the judges. information on this case. We'll let 2600 claims to reveal some inside A letter recently received by

criminal investigation. Suffice it to say wish to maintain this job for a little names, not in light of an ongoing Jersey and that, for the time being, I that I work for one of the two major nor can I divulge my employers while longer. political parties within the State of New I'd rather not divulge my real name,

duties, among them issues of telecommunications securey. some time and now do a wide range of have been involved in politics for quite I report to the party leadership. I

My telecommunications security.

skills, though hardly noteworthy in the such as yours. This is why I wish to tremendously aided by publications presence of 2600's readership, are my insight for everybody's benefit. return a favor and contribute some of somewhat respectable and

of what is going on in regards to the Jeffrey Land case. Up front, I have been privy to much

assemblyman who, coincidentally, was Aide to an Assemblyman, an among those implicated in the Pete Mr. Land was a former Assembly

sub-system and out the hard to get into one systems. It isn't too divided into sub-Network is one system "The Legislative

participating in a cocaine ring selling to behalf of the guy who was indicted for wrote a letter of recommendation on Rose scandal (this assemblyman

considered to be among the "bright Land was smart. We were

Administrators' controls, Legislative Network Systems and had through the user system of the WANG found ourselves within the Systems Back in '88, we inadvertently broke

system worked, but not the contents of better understanding of how the the individual files stored within. The only information I gained was a I didn't stick around for too long.

users' system but didn't back out. He kept going on his own, all through '88, '89, and up to February of 1990 when Land also busted through the

been in the news around here for listings, campaign strategies, and such interesting information, like contributor into the system, but had also taken out some time. Land had not only gotten he finally got caught. The Land case is fascinating, it's

This is essentially what Land did. one sub-system and out the other. systems. It isn't too hard to get into is one system divided into sub- all from the opposing political party; The Legislative Network, you see

"saw nothing wrong in what he was for was not only aware of this, but leadership whom Land was working Committee determined that the party Inquiries by the State Ethics

over 1,000 individually protected files! managed to see and/or obtained well the acknowledged fact that Land about the whole thing." This, despite charges and wish to instead "forget exposed are not seeking to press any fascinating is that the opposing political party whose files have been Incredible. What's even more

Why back down?

Here's why.

evidence including: Land uncovered solid, hard

benefit of service to the public were 1) State staff, hired solely for the

hacking scandal

elected officials in office. Everybody salaries was therefore used to keep computer databasing facilities and the time using public facilities, notably elected officials on public money and working salely for the benefit of the known outside of the office. does this, but it's not supposed to be like. Public tax money for state staff

obtained evidence showing what fronts for corporations and others who contributions, PAC's are deliberate PAC (Political Action Committee) readily tell who is being given what do not want to leave a trail. Land tell who actually benefits from these that election law reports do not readily money is handed out in such a way contributions and posted legislation. directly correlates between given aw overseers is that you cannot the major stumbling block for election-Land's computer evidence

those breaking the law?" when they are, in fact, among such crucial expect our legislators to telecommunications matters legislate on our behalf on "How can we reasonably

legislation — tax breaks, funding corporation gained what piece of loopholes, etc. — in a manner never Sone before.

More Weirdness

Election-law controls are obviously

Page 4

hacking

allegations, but a bad taste still lingers. office later exonerated them of the upset if your bills don't get posted." Cinner meeting was the now famous statements said to the lawyer's PAC The FBI and the Attorney General's line: "Your members are going to be lawyer's PAC. Among the so-called in a so-called "shake-down" of a October of '89, the current majority case underlines this point. During representatives during that fateful leadership members were implicated happened in the fall of '89, the Land in need of expansion. In light of what

you win. Winning is, the game, it's whether "It's not how you play

We've all known about this shit;

after all, everything."

those breaking the law? matters when they are, in fact, among such crucial telecommunications encouraging partisan hacking! legislators are among legislators to legislate on our behalf on what else is new? The catch is how can we reasonably expect our race. A politician taking money -- so corruption is as old as the human

everything." you win. Winning is, after all, how you play the game, it's whether our legislative staff said to me: "It's not I recall vividly what our director for

greedily accept, seeing "no apparent crank out their "total distaste toward ethical wrongdoing" as Land's whatever information hackers cull they these individuals" while all along approached upon the issue of "hackers" and the like, legislators superiors so stated. It is utterly ironic that, when

next year's elections are looming on agree upon avoiding this one issue as parties, Republican and Democrat, do frontcally, both partisan political actually, a means of ducking the real garbage. The separation argument is, executive branch of government" is between the legislative and the "fundamental separation of powers about the situation." The argument public doesn't give a tinker's damn Speaker of the House said that "the ssue: election funding reform. flowing to the newspapers about the announced that they "see no need to further investigate the matter." The The State Attorney General's office

I've watched the legislative bills get a finker's damn", unless, of course, with legislators, they really don't 'give posted and know there's no such thing After helping to set up the fundraisers, you're a large, multi-national PAC. Actually, as one who works closely as coincidence at the state capital. that we should write to our legislators. your article on "Operation Sundevil" I write this because you state in

twisted nightmare; it's one thing to is rapidly becoming a tremendously have soldiers goosestepping down I, for my part, feel that this country

else when we're living within a giant Javid Lynch sitcom. Pennsylvania Avenue, but something

into other programs or job perks for and for raising more money to channel are what the Secret Service and the for these "lough economic times" about, all in the name of raising taxes BBS licensing, and the like to come anyone?l) It's time to start working ourselves. (Hal A hacker's PAC. legislators want, both as a means of a the pike. Expect to see regulations, better regulatory/law enforcement Taxation and operational regulations together before more shit comes down It is time that we start politicizing

samurai of these petty is becoming the "The computer expert

relatives on the payrolls.

gets dull and us with it - unless, of operational charges. Our cutting edge so only by charging or increasing their course, you've become a member of that those remaining BBS's would do of sufficient funds to keep them going. The New Movement, the Underground This scenario also doesn't mention the boards would go under due to lack Never mind, though, that most of

It's Gelting Cold Around Here

Information Act file acquisitions (see evident: the winnowing of Freedom of June of '90 American Bar Association Several other trends are becoming

political scandal

defense industry corporation?), and credit bureau, is also TRW, the major surf's up: the stormtide's rising, gang. now the crackdown on BBS's - yep, amazing coincidence that TRW, the the U.S. government (isn't it an on the part of credit bureaus obtaining Magazine), the lack of accountability private information from branches of

The Lords of Disorder

primary election candidate's worker not proven, it appears that it was a found to have been "lax" and, although forced open. After an "inter-office databasing system. Somebody broke who managed to get in and check out investigation", custodial staff was doors were, interestingly enough, not that anything ever is, and the office got a listing of the major databases. hired by a congressperson on their No disks were stelen or damaged, not into this congressporson's system and campaign telecommunications/-Watergate lives on, I was recently

when, where, who, and what voting must then be shifted accordingly, and then you're fucked. Political strategy block your opponent is gunning, well, this can be a real pain in the ass. This was bad. Once you know

stand on "the edge". Perhaps herein les our true strength. lords, particularly those experts who becoming the samural of these petty illustrates how the computer expert is Inis last story and the Land case

politicians employ our skills while yet strong-arming us and why corrupt taxing our life's blood. we're given to be; this is why the SS is We are far stronger than what

Page 6

THE HACKER

by On Williams

incanded to be comprehensive. provided on obtaining the product. This list is not Each is given a brief description and adorpation is books, journals, newsletters, and network natiog lists. into six perfer underground magazines, celalogs, information of interest to heckers. The list is divided This arbole lists sources of computer eacurity

magazines is up to date for the most part, a few sources are up to 18 months old, Therefore, before SOUTH SATISFA SALOS IT SEEDS rate by contecting the company. Some companies will tending money, confirm the eddress and subscription the information presented on the profiled

are System Consultant or System Administrator confirmation card asking some guestions, including your desire to receive their magazine. They will send a qualified gerson, contact the company and tell them of the magazine is free to qualified people. To become a your company and job tide. Good occupational choices Subscription rates denoted by ""free big" and dates

Underground Magazines

Caneda, \$20 for overseas). Address: TAP, P.C. Box issue. Subscription rates are \$10 a year, |\$15 for anarchist-sectorical voice is there; but the observe but does not pick up where the cid TAP ists off. The succeed. Whiten with the same flavor as the old TAP. groups after the original, one of them managed to 2006A COURSELL NY 45000 Published wherever they have meteric to create an shor-string budget affect and load voice is missing TAP. After several revival attempts by various

Francisco, CA 94104 \$12 for 4 issues. Address: 41 Sutter \$1, #1829, 3 so society with their "false of Toll" from around the area. concerns are the preveback of work in a technological office centered megapine about work. Specifically its stabule towards technology. An analytically priented Processed World. The magazine with the bod

House, Porthtowen, Cornwall, TB4 60X, United monochrome screen dumps here are rather shame they don't have color printing, but even the mapes of the Madelarot set and its relatives. It's a skilled to programming who wish to explore computer Fractol Reeves Telecommunications, West Town forth. 523 for six issues. Address: J. de Rivex, c/o oteresting. Languages used include C. Poscal, and Fractal Report A newsletter for those reasonably

erfocies. Information useful to everyone is in every Schenectedy, NY 12301 ssue 52 for four issues. Address: P.O. Box 402 eres computer stores, they've got reviews and feature respective everlable by shad, in addition to the acts from The Capital District Computer Mark A local

The Ameteur Compagnist. This forum graw out of a

A34, Dearton, My 68126 there \$5 for four issues Address: R. Houten, P.O. Box in basis. Fash firestly taken off yet, but the potential is floor grees roots. Mostly it's history and short programs experiment in bringing companing ideas to the ship programming class for weekers at ford. It's soft of an

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Request@S/VTR/30/A/P/A WKO-MODEMS. A discussion group of special Tioner users, info-Moderns

> operating system. INFO-UNIX-REDUEST@6RUARPA users, programmers, and administrators of the Unix (NOTO-DINEX, Aliquestion/answer forum for novice

system has its own forum for guassions and ecowers INFO-VAX-REQUESTOX_SR_COM AVEC-MAX. Not to be outdone, the MMS operating

meting groups available ZELLICHOSRI-NICARPA God of making lists. The corners "list of lists" of

GEOODE MITTER current projects. PACKET-RADIO-REQUESTS exchange ideas about parket ratio and discuss PACKET-RADIO. A discussion where people can

REQUESTIGNED SELECTIVE systems. related to risks to the public in the use of computer AUSKS. Distribution list for discussion of issues Spontored by the ACM, BISKS.

SECURITY-REQUEST **GAIM** RUTGERS EQU the focus is on computers and locks of all sorts SECURITY Discusses of types of security. Most of

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the felecent-archives directory. Archives of telecom are available at learnifiedu in

REQUESTOCKLA ***A uniting the Unix operating system. UNIX-WIZARDS-OWN-WIZARS'S for people mentaning machines

the command, SUB VIRUS-Ligaur full name). all topics of computer viruses. Other subscribers issue WAUS I. Forum apacifically for the discussion of

the massage body to: (ISTSERV%LEHEBMILBITNET Other subscribers include the same command in

41 for specific details. local time. See page Friday of every month Francisco on the first New York and San 2600 has meetings in from 5 pm to 8 pm THE RESIDENCE AND PARTY AN

Central Office

articles to come out of This is one of the last The Legion of Doom by Agent Steal

knowledge. I'm sure there are going to be telecommunications and computers for 12+ However, I have been involved in particularly the references to tracing. people that disagree with me on some of it, this article is correct to the best of my I should point out that the information in

IAESS since it is the most common switch I'm basing this article around the

Outside Plant

an autside loop in the LOD Technical another article in itself so if you are manholes, etc. Where it stops, this article see on street corners, serial cables, interested read Phucked Agent 04's article telephone and the central office. That is Journal. It explains those green boxes you This is the wiring between your

Cable Vault

through holes in the ceiling to the frame building. Outside cables appear though room varies but runs the entire length of the another of the building. The width of the the basement located at one end or the cable vault. This is a room generally in holes in the wall. The cables then run up underground. They enter into a room called from subscribers enter the central office All of the cables from other offices and

optic, coaxial - enter through the cable obviously depends on the size of the office an average of \$500 pairs of wires. That's All cables — interoffice, local lines, fiber 3500 telephone line. The amount of cables Understand that these cables consist of

Frame Room

connectors. The frame runs the length of to individual pairs and attaches to the building, from floor to casing. There are The frame is where the cable separates

> are simply 2 conductor twisted pair running one side and cables from the switching building, floor to ceiling 5 feet thick. The between the VDF and HDF. incoming "cable pair". These jumper wires of equipment can be connected to any the HDF. Cables from outside connect on is where the connectors to the switching protector fuses reside. The horizontal side where the outside wiring attaches and the wires connect the two. This way any piece equipment connect to the other. Jumper MDF consists of two sides, the VDF and (MDF) running the entire length of the frame called the Main Distribution Frame equipment. So what we have is a large from the connectors to actual switching system reside. Multi-conductor cables run and the vertical side. The vertical side is two sides to the frame, the horizontal side

format used for that switch. around the 1AESS, I will describe the OE another. Since I am writing this article more complicated and varies in format from frame, however the HDF side is a little marked by cable and pair at the top of the Information regarding cable and pair and frame to frame and from one switch to you could find your line on the frame and "OE" or originating equipment. With this What does all this mean? Well, if you had access to COSMOS you would see on the switch. The VDF side is clearly

block on the HDF side. frame designation called LOC or location. big one); F = Level. There is one more concentrator; E = Switch (individual, not the that C.O.); B = LN Line Link Network; C = group (when more than one switch exists in This gives the location of the connector LS Line Switching Frame; D = CONC or OE ABB-CDD-EFF where: A = Control

Switching Systems

description of each going to list the major ones and a brief would be lengthy indeed. So I am only Writing an article that covers them all

automatic, required no operators for local Step by Step (Strowger 1889), First

Operations

find its path. instructions, could not chose an alternate manufactured by many different companies route if programmed route was busy. Each in different versions, hard wire routing calls, no custom calling or touch tone. dia pulse tripped a "stepper" type relay to

other manufacturers. logic for program control, also copied by relay switches, hard wired common control equal access, utilized a 10x20 cross point trunks for call routing, no custom calling or Western Electric, first ability to find idle Crossbar (1947) (faster, more capacity). No. 1 Crossbar (1930); - No. 5

switching, not usually used for local loop AT&T's long line network, 4-wire tandem No. 4 Grossbar, Used as a toll switch for

Western Electric, described in detail later in No. 1ESS (1965); - No. 1AESS (1973)

GTE's version of the 1AEES, slower and No. 1EAX. GTE Automatic Electric

apprications. and No. 1AESS, downsized for smaller cigital control, very similar to the No. 1ESS Western Electric, analog switching under No. 2ESS (1967); No. 28ESS (1974).

to 4500 lines. version of No. 1AESS, rural applications up switching under digital control, even smaller No. 3ESS Western Electric, analog

under digital control. smaller version of 1EAX, analog switch No. 25AX. GTE Automatic Electric.

IAESS processor. 4-wire tandem, digital switching, uses the No. 4ESS. Western Electric, toll switch,

No, GTE Digital toll switch, 4-wire tandem No. 3EAX. Goe, is there a pattern here?

scale computerized digital switching, ISDN technology, toll or end office. compatibility, utilizes time sharing "No. 5ESS, AT&T Network Systems, full

Northern Telecom, similar to 5ESS, runs DMS 100 Digital Matrix Switch

slower, considerably less expensive.

optional operator services. DMS 200. Toll and Access Tendem,

common camers. DMS 250. Toll switch designed to

DMS 300. Toll switch for international

No. SEAX, GTE Automatic Electric,

is so much. Well ... maybe your parent's bill end office can cost well over 3 million equipped SESS for a 40,000 subscriber dollars. New you know why your phone bit How much does a switch cost? A fully

The IESS and IAESS

manufactured. The 1ESS has been class 5 and offices replaced by the SESS and other full scale placed into widespread use by Bell the most common switch used in today's digital switches. However, it is still by far control, the switch is no longer being Primarily an analog switch under digital This was the first switch of its type

Voltage is only required to change the state voltage to stay in its present position magnetic switch that does not require magnetic alloy switch. It is basically a tereed (remreed in the 1A). It is a two-state switching matrix similar to the crossbar The primary switch used in the matrix is the The #1 and 1A use a crosspoint

AWA tape controllers, pulse distributors, xcontrol via data buses. All of the scanners, controlled via central pulse distributors the call. The crosspoint matrixes are central control then either calls upon outgoing, and incoming trunks, reporting common control and memory. Memory which in turn are controlled by the central which crossports to activate for processing their status to the central control. The lines, crosspoint switches, and all internal scenners monitor the status of customer used by the #1 changed with technology program or call store memories to choose but most have been upgraded to RAM. Line The #1 utilized a computer style

What Makes A

merely cables connecting the different units information on the buses. The buses are to the central control. their address and command or report their point matrix, etc., listen to data buses for

capacity. The #1ESS could process 110,000 calls per hour and serve older style electronics with integrated processor. The 1A processor replaced controllers (to free up central controller changing the fersed to the remreed relay. 128,000,000 lines. The primary differences were speed and circuits. Both switches operate similarly. load) and implementation of the 1A adding additional peripheral component been upgraded to 1A's. This meant more common. Also, many of the 1E's have due to advances in technology. So 1A's are The 1E was quickly replaced by the 1A

control console. are in turn printed out on a printer near the reported to the maintenance console and continue system operation. Alarms are also occurs the system will doublecheck each other for errors. When a problem duplicated to ensure reliability. Systems run reroute, or switch over to auxiliary to simultaneously and are checked against elements are either fully or partially Most of the major common control

allowed to issue. Here is a list of the commonly used TTY channels. messages and have different abilities as far as what type of commands they are channels have different functions and therefore receive different types of output done through input/output channels. These and/or a terminal. Remote operation is also the Master Control Center (MCC) panel Operation of the switch is done through

testing, enable, disable, etc. Maintenance: Primary channels for

service, calling features, etc.

Recent Change: Changes in class of

Administrative: Traffic information and

supplied to automatic network control Supplementary: Traffic information

SCC Maint: Switching central centers

information to test facilities. Plant Service Center: Reports testing

will also find a list of frequently used input a brief description of their meanings. You Maintenance channel output messages and list of the most frequently seen At the end of this article you will find a

of the switch is transferred to the SCC. C.O. and is used by switch engineers as Maintenance channel doesn't leave the likely want to get access to. These are the two channels you will most with are Recent Change and SCC Maint During off hours and weekends the control backups but the only ones to be concerned the primary way of controlling the switch. There are other channels as well as

to SCCS means access to all of the switches connected to it. that the SCC mini has dialups and access correct the problem. I should also mention someone will be dispatched to the C.O. to try and correct the problem. If necessary, mini-computer running SCCS that watches that has up to 16 switches reporting to it via input messages to that particular switch to conditions that require immediate attention. the output of all these switches for trouble their SCC maint channel. The SCC has a The SCC personnel then has the ability to The SCC is a centrally located bureau

then in one batch several times a day, system called MIZAR logs into COSMOS, transmits the orders to the appropriate pulls orders requiring recent change work should know that already, right? So this system for central office equipment, but you order placement and record keeping pending orders. COSMOS is basically an automated to a large degree by computer systems that log into COSMOS and look for class of service, etc. RCMAC has been connect to a centrally located bureau responsible for activating lines, changing referred to as RCMAC. These bureaus are The Recent Change channels also

Central Office Tick

switch via its Recent Change Channel

cover the ones I know fairly well. the same functions. I will only attempt to a number of systems, many accomplishing different methods. Bell Labs has developed Testing of the switch is done by many

much do the same thing: test trunk and line paths through the swach. itself. There are three and they all pretty the trunk test panels located at the switch The primary testing system consists of

Manual Trunk Test Panel Supplementary Trunk Test Panel Trunk and Line Test Panel

another popular one. This system, often ines via a call back number. give very specific measurements of line levels and losses. The 'TV Mask' is also available through the LMOS database, can popular giving the user the ability to monitor MLT Mechanized Loop Testing is

present on the line, or whether it is busy or one only to tell what type of signal is audio is scrambled in a manner that allows DAMT can also monitor lines, however the personnel, so this automated that task ions on numbers to help them find lines. lesting is used by line repairman to put This was previously done by Frame DAMT Direct Access Mechanized

in progress. The No Test Trunk is also the calls - you would need to drop in on calls present problems when trying to monitor connected to the trunk, but there is usually seize the line, busying it out. This will when the No Yest Trunk drops in Also the a noticeable click heard on the tested line lesting devices I have mentioned here will subscriber lines. It depends on the device is strictly for access and testing line into the switch. The function of this line the switch itself and act like a telephone testing device. The test trunks are part of (in the 1ESS) which can drop in on a through a "No Test Trunk". This is a relay thing in common. They access the line specific path or line and connect it to the All of these testing systems have one

> method in which operator consoles do vertications and interrupts

Interoffice Signalling

signaling that can generate these output any MF digits received. However call, it then proceeds to record on AMA and messages it is often overlooked and "SIG due to many long distant cerriers using winks after the original connection of a tell program called SIGI that locks for any 2600 number. This worked great for years iAA" output messages are quito common generated at all. The 1AESS does have a to begin with, there was no billing Assuming you had dialed a toll-free number the Yunk and you could then N.F your own the distant switch would think you hung up. Remove the 2600, and you have control of winks 2600 hz down one of these trucks, 2600 hz to indicate trunk in use. If one Signaling". This utilized the presence of is the famous and almost extinct "SF Signaling. The predecessor to both of these most common are Loop Signaling and several different ways this is done. The two number to the distant switch. There are CCIS, Common Channel Interoffice effectively and then retransmits the dialod which trunk will route the call most are routed via trunks. The switches select Calls coming into and leaving the switch

trunk is reversed to indicate trunk use. However, the polarity of the voltage on the the called number to the distant switch Loop signaling still uses MF to transmit

of data containing information regarding SITTINGS. standard, CCS6 and CCS7 are somewhat protocol that AT&T uses is CCS7 and is and more efficient way of call processing outgoing calls. The distant switch monitors currently being accepted as the industry and is being implemented all over. The uses a reparate data link sending packets frunk to the correct path. This is a faster the information and connects the correct CCIS, sometimes referred to as CCS#6

together onto one pair. The standard is 24 Interdifice trunks are multiplexed

(continued on page 18)

leaked

MINCHEST 1

"CLASSIFICATIONS"

Definitions and Examples of Discourceous Actions Which Warrant Disciplines

NOT BUSINESSIESE:

Definitions Has exhibiting some and manner fell to be appropriate in budicers - e.g., talking in a joking or jesting ranner at imappropriate times. The of sleng - nonattacker vectobulary.

133603500 "I would like to call person to person the Sales Manager."

"Out ye." "Does he have a name and girms the number."

"Oh, calling a big about codey."

I. SUBT. ANIMOGNISTIC, ASUSTYET

Offensive in monner of action. Ill-namered, abrupt, forceful, argumentative, impatient, extraorize, cutting. To provoke hostility, abuse verbally.

Customar: "Operator, did you say the Area Code was 21) or 212"

"The treable with you is you don't listed."
"I'll tell you once more 2-1-2 and don't ask
agein."

PCco'c you understand English!" "I said 2-1-2!"

Cuatope C: "When as I gaing to get my number, Cycrater;"

Secure "Enver of I had any may about mit." "If you weren't so durb you would dist it. yourselt."

"What I come like to." "Bon"t 1985 ne."

documents

J. SEERING, WILDIG

A. Profune:

Definition: or volgar statements. Impresents to use professity. To debase by siding, unveilby

"her, operator where have you been out to cotten?" "I'm ready for snother call."

"Just one dama minute." "Who the hell do you chink you are, schedes specially way it's none of your G.D. bosiness."

"Customara like you give so a pain o

Chacene:

Det inition: Dispursing, repulsion, dirly, foul, many, vile, unprincable.

Examples Customary "You connected to with a wrong number, country it again.

Operator: "On, where costoners like you frost N 4--- "

"Tough, kiss my a---

The above exceptes are intended to be the mildest description of each

THIS COMES FROM AN UNNAMED PHONE COMPANY'S MANUAL FOR SUPERVISORS, DOESN'T IT JUST FROST YOUR A .-?

2600 Magazine Winter 1990-91

Central Office

(continued from page 15)

equipment is usually handled by the amplifying trunks between offices. This world in itself. This type of transmission is part of this technology which is often a channels per pair. This is called T-1 in its Carrier also handles special circuits, private effective for only a few miles on twisted analog format and D-1 in its digital format. ines, and foreign exchange circuits "carrier" room, often on another floor Repeaters can also be found within C.O.'s, repeaters in manholes or special huts. pair. It is often common to see interoffice The terms frame error and phase jitter are This is often referred to as carrier or CXA.

other can't. Crosstalk is bleed-over from call, one person can hear crosstalk and the other channels on the multiplexed T-Carrier switching. This also explains why during a trunk. This is referred to as 4 wire allows more calls to be placed on any given allows better transmission results and transmitted on separate channels. This transmission lines used between switches. and called party are separated and transmit and receive paths of the calling After a call reaches a Toll Switch, the

Call Tracing

are coming from within that Bell company determined what C.O. the calls are coming group is known, it can usually be output channels and gives information message shows up on most of the ESS and not through a long distance carrier from. This is also assuming that the calls printed in the message. Once the trunk within that office, then the calling number is mooming trunk group. If the call came from regarding the time and the number of the time someone calls that number. The on a number, a message is output every progress. When call trace "CUD" is placed trace an anticipated call, not one in method. This is assuming you are trying to tracing routine to be at least a two-step switches. This therefore causes the call regarding the calling number between there is no information being transmitted So with loop signaling standard format

> anyone in that C.O. calls the number in number on the C.I. list of that C.O. Anytime (IEC), So if Bell knows what C.O. the calls showing all the pertinent information. question another message is generated are coming from, they simply put the called

days. What is difficult is getting the different much less trace a call many different companies at one time as serious to warrant tracing in most cases, have to be doing something relatively organizations together to cooperate. You tracing in itself is not that difficult these networks like Telenet, Well, I can assure call through some of the larger packet the more people will need to be involved in numbers of the call in progress. Naturally would give them the path and trunk group appropriate switches (i.e. NET-LINE). This Sprint. They can't even bill people on time you think is necessary, especially US concern, I would recommend using as however, not always. So if tracing is a the cooperation of the Bell companies. Call network in seconds and all that is needed is you. Telenet can track a call through their misconception about the ability to trace a the trace. There seems to be a common the more things the call is going through, SCC and a few commands sent to the would only require the assistance of the Now if this were a real time trace, it

Equal Access

to and from. They have to pay the LEC for The first thing you need to understand is that every IEC (Inter Exchange Carrier) have the following options. is high and the market is a zoo. The LECs amount of trunks, and trunk use. The cost the type of service they receive and the company - that they want to have access Exchange Carrier) — or your local phone an agreement with every LEC (Local or long distance company — needs to have

(POTS line), this is FGA. The IEC's LECs. Basically whenever you access an access form offered to the IECs by the Feature Group A: This was the first

Operations

to PC Pursuit. Basically a diel in, diel out situation similar calling and dial your number locally outgoing salephone line in the city you were own network. Then they would pick up an your digits, and route your call over their equipment would answer the line, interpret

but this is the most common. different ways FGB is technically set up, connects the calls. There are a lot of IEC MFs into the AT and the AT then basically connected the same way. The side, calls coming in from the IEC are with wink start (2600hz). On the incoming use a form of multiplexing like T-1 carrier direct trunks connected between the AT and their equipment. These trunks usually Switch) in your area. There the IECs have call to the closest Access Tandem (Toll you dial 950, your local switch routes the is a very different setup from FGA. When Feature Group 8: FGB is \$50 xxxx. This

detected and relatively easy to trace. If the particular area, they will pursue it. IEC is really having a problem in a brute force hacking of 950s is easily switch. However, I should mention that Excessive call trace messages can crash a every time a call is placed to that number Remember, CUD generates a message from reliable sources of it over being done. question to put CLID on the 950 number. calling from, it wouldn't be out of the end offices. So, if you are using a small IEC, and they figure out what C.O. you are on how the IEC interface is set up. Many expensive to do this, it also really depends considerable manpower which equals This is highly unlikely and I have not heard IECs have trunks going directly to class 5 like I mentioned earlier, it would take up. The answer is yes, it is possible. But of contraversy and I would like to clear it Tracing on 950 cells has been an area

and used exclusively by AT&T. Festure Group C: FGC is reserved for

with the exception that ANI is MFed to the IEC. The end office switch must have Equal Fasture Group 0: FGD is similar to FGB

> amount of companies. A good example security or marketing tool by an increasing as well. You will find this being used as a distance companies offer a service where would be 800-999-CHAT. they will transmit the ANI to the customer You should also be aware that long wants it, they have to buy the whole prefix implemented on 800 numbers and if an IEC modifications FGD can only be possible for a crossbar to have it with it. I guess I should mention that it is ANI. Anything above a crossber can have Access capability in order to transmit the

(Message is followed by a description.) 1AESS Common Output Messages

Alarm

AR02: Alarm retired or transferred AR01: Office alarm

AR03: Fuse blown

AR05: Commercial power failure Afi04: Unknown alarm sean point activated

AR06: Switchroom alarm via alarm grid

AR07: Power plant alarm

AR10: Alerm configuration has been AROS: AVA bus fuse blown AR08: Alerm circuit battery loss

ART1: Power converter trauble changed (recred, inhibited)

AR15: Hourly report on building and power AR13. Carrier group elarm

Automatic Trunk Test

8/m/s

ATO1: Results of trunk test

CG03: Reason for above CG01: Carrier group in atams Carrier Group

Coin Phone

CN02: List of pay phones with coin disposal

CN03: Possible Trauble: because of possible coin traud CN04. Phone taken out of restored service

COPY: Data copied from one address to

Call Trace

CTDT; Manually requested trace line to line. information follows

Inner Workings

CT03: Intractice called placed to a number trunk, information follows CT02: Manually requested trace line to

WISH CHID CT04: Interoffice called placed to a number

CT05; Call placed to number on the Clifist CT06: Contents of the CH ist

CT08; ACD related trace CT07: ACD related trace

CT09: ACD related trace Digital Carrier Trunk

Memory Diagnostics

DCT COUNTS: Count of T carrier errors.

DGN: Memory failure in cs/ps diagnostic Digital Carrier "Frame" Errors

FM03: Error rate of specified digroup FM02: Possible failure of entire bank, not FM01: DCT alarm activated or retired FM04: Digroup out of frame more than

FM05: Operation or release of the loop

FM07: Carrier group elerm status of FM06: Result of digroup circuit diagnostics

specific group FM08: Carrier group alarm count for

FM10: Public switched digital capacity FM09: Hourly report of carrier group starms

FM11: PUC counts of carrier group errors

MA02: Status requested, print out of MACII Maintenance

eldnow us strun WA03: Hourly report of system circuits and

MA05: Maintenance interrupt count for last MA04: Reports condition of system

MA07: Successful switch of duplicated unit distributors in trouble MA06: Scanners, network, and signal

named unit MAGS. Power should not be removed from MAGB: Excessive error rate of named unit (program store etc.)

> MA10: OK to remove paper MA12: Power restored to unit MA11: Power manually removed from unit VA13: Indicates central control active

MA21: Reports action taken on MAC-REX MA17: Centrex data link power removed interrupt recovery program acted MA15: Hourly report of number of times

inggers are inhibited MA23: 4 min, report, emerg, action phase pommena

Memory

MN02: List of circuits in trouble in memory Network Trouble

NT04: Network path trouble Trunk to Trunk NT03: Network path trouble Line to Line N102: Network path trauble Trunk to Line NT01: Network frame unable to switch off made busy NT06: Hourly report of network frames line after fault detection

NT10. Network path failed to restore Operating System Status

OP APS 0 OP/CHAN OP APSTATUS

OP ERAPDATA: Error analysis database CP:CSSTATUS: Call store status OP:CISRC: Source of critical alarm. automatic every 15 minutes OP:DUSTATUS: Data unit status

devices OP:LIBSTAT: List of active library OR: INHINT: Hourly report of inhibited

OP PSSTATUS: Program store status programs OP.OCSUNITS: Units out of service

Plant Measurements

rregularities section of report PM02: Monthly report PM03: Response to a request for a specific PM04: Daily summary of 10/1EC PM01: Daily report

ADS function is about to coour REPT:ADS FUNCTION: Reports that an REPTADS FUNCTION DUPLEX FAILED

of a Central Office

off hooks, may indicate bad cable REPUBLIE TRBL: Too many permanent fücked up RESTADS PROCEDURAL ERROR: You BERT ADS FUNCTION STATE CHANGE: boe tape drive is assigned REPTIADS FUNCTION SIMPLEX: Only Change in state of ADS No ADS assigned

BERTIRO SOURCE: Recent change REPTIAC CENSUS: Hourly report on system status (RCS-1 means RC Chan recent changes System programs that are off or on REPTIPROG CONT OFF NORMAL

Recent Change

STORES.

RC18: RC message response ffemove

BMV: Removed from service Restore

BT04: Status of mongors HST. Restored to service status Ringing and Tone Plant

SA03: Call store memory audit resurts SAb1: Call store memory audit results Software Audit

SIG IRR TRAP: Half hour report of traffic SIG IRR INHIBITED: Detector of SIG IRR: Blue box detection Signal Irregularity

Traffic Condition

JL02 Reason lost position test was denied IC15: Reports oversit traffic condition (U03: Same as above

UN06: Truck stat change 3N04: Trunk diag request from test panel TNO1: Truck diagnostic found youble INDS: Trunk test procedural report or IN02: Clai tone diday alarm failure Trunk Network

usually a request from test position IN10: Response to TAK-LIST input INDB: Network relay failures (NOS: Falled incoming or culpcing call request

IN07: Response to a trunk type and status

100 S TN11: Hourly, status of bunk undergoing

groups TOCO1: Serious traffic condition IN16: Daily summary of precut trans Traffic Overload Condition

Translation (shows class of service,

overload conditions

TOC02: Reports status of less serious

VEY-ON TR01: Translation information, response to calling features, etc.)

VEY-LEN TR75: Translation information, response to TRO3: Translation information, response to

TW02: Dump of octal contents of memory 1AESS Common Input Messages

VEIDNSVY

Messages always terminate with " ctrl di", X-number of gunk natwork #

through switch NET-LINE-xxxxxxx0000; Trace of path

NET-TNN-xxxxxx Same as above for trunk

deling factures etc. VFY-DNxxxxxxxx Displays class of service forwarding TR-DEACTT-26xxxxxxxx: Descrivatos call T-DN-M8xxxxxxxx Makes a ≠ busy

VFY-LIST-09 xxxxxxx: Displays speed VEY-LENxxxxxxxx: Same as above for OE calling a list

was to write an article that explains the big this article and many of the things I covered, I did so very briefly. My intention picture, haw everything fits together. I hope There are many things I didn't cover in

so find them ever heard of You just have to know where without their guidance, this would have great backers out there that no one has nover been written. Yes, people, there are for without them some of us wouldn't be so Also special thanks to John and Dave for smart and might have to work for a living. Special thanks to all the stupid people

anatomy of

In our last issue, you may have noticed a reference to a service called 1-900-STOPPER on pages 25-26 that sllows you to place a call without being Caller-ID'd for \$2 a minute. We referred to it as "another rip-off that preys on people's fears." We also said it didn't allow you to call 800 numbers which frequently identify the numbers of their callers.

It looks like we ruffled some feathers. The following letter was sent to us by Will Dwyer, Pyesident and CEO of Private Lines, Inc. and a copy sent to their lawyer, M.L. Rudnick:

Having gained knowledge yesterday of your having published in the Autumn 1990 issue of 2600 Magazine (pages 25-26) that our telephone service, which you characterize as 'another rip-off,' 'won't allow you to cell 800 numbers, we hereby (1) serve notice on you of our claim that your statement is libelous and (2) demand that it be corrected. (Section 48a, Civil Code of California.)

"Had you either inquired of us or tried the service yourself, you would have found that a caller can reach an 800 number — without transmitting ANI (automatic number identification) for his or her phone number — via the same procedure by which our 1.900-STOPPER (786-7737) service allows call completion to any other U.S. telephone number. (Your writer, 'EH,' should have noted that the \$2 per minute applies to calls anywhere in the U.S., not 'just local.' The \$5 per minute service is a separate one for international calls;

scress to it is via 1-900-RUN WELL (786-9855).*

In a typical issue of 2600, we point out quite a few discrepancies, inequities, or rip-offs. In each case we have specific knowledge which leads us to our conclusions. In this particular instance, we were replying to a letter ("EII" wrote the letter and is not one of our writers). We believed at the time, and we still do, that our assessment was correct.

This attempt to intimidate us into taking back our words does nothing but infuriate us. We have an obligation to be honest and open with our readers and no one person, company, or governmental agency will convince us to betray or suppress that trust.

Let's take a closer look at 1-900. STOPPER, We first tried calling 800 numbers through their service months ago. It didn't work. It still doesn't. We challenge anyone to use this service to make an 800 call to MCI (800-444-4444) or the Runawny Hotline (800-999-9999) or any 800 number. We did finally find one that worked, (AT&T: 800-222.0300). But the majority we tried didn't. We got a fast busy signal indicating some kind of a restriction.

Out of fairness, we cannot say that the service doesn't connect to 800 numbers. It does, sometimes. But one thing the service did do consistently was hill us for every attempt we made. Which brings us to the word "rip-off". A service that bills customers for absolutely nothing is, in our opinion, a very good example of this. If you use 1.

a rip-off

900-STOPPER to connect to a number that's busy, you'll still get billed \$2 for the attempt.

would still show up on a pen surveillance, the digits they disled distance phone bill linked to the make a local call or toll-free call? perfectly and only billed for the caller but if he/she were under It's true that there would be no long distance calls, Caller ID is only used identification in place for long is currently no form of caller service to dial nationally since there (There would be little need to use the its premise absurd. \$2 a minute to actual time connected, we still find free calls, at least for the moment. locally and ANI is only used on toll-Even if the system worked

register.)
As for this other service (1-900-RUN WELL), we find \$5 a minute an obscene amount to charge for a phane call to anywhere. And what kind of privacy is being guaranteed here? Any international call is still subject to monitoring by the NSA.

Your phone could still be tapped. A pen register could still be on your line. There is no international Caller ID or ANI to avoid.

We tried this service as well and found it disturbing. There was no mention at all of the high price. (Perhaps this helps explain why our letter writer got the pricing wrong.) All we were told was to enter the international number we wanted to call. We got a recording from AT&T saying all circuits were busy as well as a sinking feeling that we were going to get charged \$5 for the privilege of hearing that bit of information.

Do we have anything at all good to say about these two services? Yes. It's good to recognize the right to privacy and let people know they don't have to be constantly monitored. There should always be alternatives to that. But, for the reasons given, we find these particular alternatives to be wholly inadequate ones.

Directi	Directly dialed					
No.	Date	Proce colled	Number Celled	Time	200	
			2439	5 14 5 4	8	
		CNATASALAN	20.20	S CAPH	8	
		MULTIQUEST	900 785-3737	# SI AM		
		MULTIOUSST .	200 766-7737	No (0. 1		
		MULTICUSST	202 766 7737	4 A 1 0 E		
		MODIFICATION.	.900 766-7737	0 00 PM		
		80CT00357	900 705-7737	N. C. V		
		MUCHOUSE	900 786-7727	4 45 44		
		CNATHERITANO	3100	Ne 91 1	8	
		SAUGI 48A8	9633	S 52 5 E		0
		200 000 000		2000	2	

Only the last attempt resulted in a successful call completion. But that didn't stop these wonderful people from billing us anyway.

T'S THE

COCOT Troubles

he booked in a nine volt battery in parallel used a hangup pulse that hung up the out these COCOTs so that I can get free receiving more. Furthermore, I would like to COCOT's in the lobby. I obtained a copy of school in Fayetteville, NC. this phone. there are other less difficult ways of backing until the number connected. I want to see if phone when it read zero volts on the lox. So LD's. My briend noted that these phones request some extra information to hacking 2600 through a friend and I am interested in rebbing its students blind by having two I am presently encolled in a sensor high This school is

after the called party hargs up. Do you by works, but if all you're interested in is suggest reading the Flague's COOOT article And see what happens when you call it. We programmed in tits the star or pound keys. end? Look for speed dials that are chance get an unrestricted dial tone on your phone in the first place. See what happens lot better than the electroids who installed the making free phone calls, you're not a whole By all means figure out how the phone

Future Surveillance

Dear 2000;

such monitoring. The author appears to BellSouth' (by Emmanuel Goldstein, their security in a different way. to be a well-designed system for performing technology. From this description, it appears Autumn 1990) describes new monitoring believe that BellSouth should have improved The article "New Revelations from

select the method that they use? actually do so? And shouldn't they be free to security? Why, then, the objection when they demonstrate that Bell should improve their attacks against various Bell computers to However, wasn't the goal of some of the

Minnesots

it can would a workey of lines simultaneously, capable of far more than "improving security." monitoring decide BellSouth is interested in to Not when that method carries extremely troubling implications. Note that the recording voice, fax, and computer

> company's knowledge or approval. That's traditional characteristy, even without the phone interested entity will be able to moretor an something none of us will be sensed by. leads one to the conclusion that any

Why Did You Do It?

Dear 2500:

Fall 1890 bone. published the credit card algorithm to your I was disappointed to see that you

open to shose by individuals who just wish spread it further. distance call over an AOS. And although believe that your magazine should have know that the algorithm was already well known within the hacker world, I don't except to leave imposent credit earl holders that it serves no purpose by being published First Amendment rights to publish it, I think to call a phone sex line or place a long Although I know it was well within your

state that often credit card numbers are see no reason to publish the credit card then billed later. often checked only against the algorithm and merchandise as the authors of your article numbers for billing, or to obtain actual 800 chat lines which use credit card over an AOS, access to phone sex tines or generate numbers to be used to place calls algorithm if your magazine truly betieves in learning and exploring systems. Therefore, I nothing to do with the hacker ethic of abuse are tantamount to stealing and have that credit card fraud and long distance code algorithm by your readers would be to the above. The only uses of the credit cand In previous issues of 2600, you stated

names such as "KOOl/RaD Alliancel". Your materials from authors who call themselves publish any information that would be used stealing and not backing, then please do not codez philel". mag will end up booking like a "soopen-effice to those ends. And please try not to publish that credit card fraud and code abuse are Please stick to your ideals, if you believe

Seestmaster

the technology worked. What they do with information so people would understand how the point of 2600. We published that You make good points, but you've missed Santa Barbara, CA

that information is not our business. Read on

LETTERS PAGE

caused the program to incorrectly determine Cards", there was an error in the C code that the weighting factor for 13 digit Visa cards fore is a correct version, as employed in the In the article "An Algorithm: For Credit

form of a function: char "card_number; let kied: is valid ecikind, eard number)

int validP = 0; int edigit = 0, esum = 0; int celen = 0, llen = 0; char con[30]:

card number, 300; celen = atricu(atracpy(&ccm.

kind of card? */ CARR VISA: switch(kind) / is this the right length for this

[cen[0] 1+ '4']] tf (((celen != 13) && (celen != 18)) | | return(0):

case MC:

break;

default CASE AMEX: return(0); break; ff ((oclen 1= 15) | | (ocn[0] := '3')) break if ((celen t= 18) | | (cen[0] t= '5')) return(0); return(o);

if ([caum % 10] == 0] return(1); for (Hen=0; Hen < colen: Hen++) (coum += odigit; if (edigit >= 10) edigit -= 8; If (filen + 1) % 2) edigit '= 2; cdigit = cenflien - '0';

return(O);

arbitrarily defined constants, and may be if correct. "VISA", "MC" and "AMEX" are This function will return 0 if incorrect, 1

have needed something to keep people from Thank you for including this article - we

> umble-fingering on card entries Kenton A. Hoover

Whole Earth Lectronic Link Chief Engineer

Dear 2600: Questions

away for crystals to make a red box. companies the names of people that send the federal government or the phone am curious whether certain companies tell I very much enjoy your magazine and I

touch tone. I'm writing melodies with them. Also, please print the frequencies of each

Woodmere, NY

place the following frequencies along the top to do what appeals to you and not worry about what others think, whether they be that some companies do that The solution is for that number and you've got a tough tanel number you want and combine the two tenes each. Plature your touch tone keypad, with the eatra A.B.C.D column on the right. Then agnorant people or outligizant bureaucraties. hz. 770 hz. 852 hz. and 941 hz. Find the From top to bottom the frequencies are: 697 Touch takes are comprised of two frequencies 1209 hz, 1336 hz. 1477 hz, and 1633 hz "It's not beyond the realm of possibility

BBS Troubles

Dear 2500:

government is always trying to keep their things like these into the open. The lederal about the E911 case that were published to people still have the guts to stand up to it. under their hals, and it's great to see that misconduct (which occurs all too often) Pine of all the Spring 1890 edition of your magazine I have recently read the two articles I want to thank you for bringing

who was uninformed and didn't take the message about the "privacy" of e-mail. I feel was clearly known to everyone that this BBS returned to as "privileged users". Someone Apparently they had a set of users that were were the subject of a federal investigation was completely legitimate. Yet, recordy, they sorry for one BBS in particular: Horizie. It every DBS to the state now posts a warning looked into, but allowed to remain. Almost their operators). Many more have been Many a BBS have disappeared (along with these "crackdowns" here in the Twin Cities I have also been feeling the effects of

LETTERS FROM

received access to some socret part of the the 'privileged users' were hackers and time to look into things further assumed that rather than "privileged users" to avoid future extra downloads, etc. The operators have receives privileges such as more ordine time, who contributes money to the BBS and BBS. Actually, a "privileged user" is someone this heard, as well as many others, has survived the attacks and has the pride. they like. In any case. I'm glad to see that merely contributing money to a BBS that proportions that people even got harassed for hacker paramets has grown to such confusion. It is hard to believe that this antistrice changed the status to "contributors" determination, carring, and guts to remain in

own; against censorship. I am concerned the rights of musicians to say what they feel Music Resource Center) has been to limiting about how successful the PMRC (Parent Cities, I have been waging a battle of my know what else is going on. Here in the Twin as these has grown recently, I would like to the First Amendment. I would like to receive and should also be guaranteed the right to anything that would cause harm to soyocte. Also, I feel that hackers are not doing more information about your magazine and you or your magazine, but simply in learning have any contacts with the federal you that I see not a federal agent, nor do how I may subscribe to it. I want to sessure more about what is going ongovernment. I am not interested in busting Finally, since my interest to cases such

St. Paul, MN The Spectre

croppling blow. There are a great deal that are boards recover from what has been a interested. We hope to see hacker bulletin the same information to anyone who's Anyone who has questions about this should hacker boards has never been greater. ends underground now. The need for public contact us. It wouldn't matter if you were. We provide

Federal Communications Commission is Dear 2600: to keep my logs, that after all of the work I've going to begin forcing BBS sysops to keep put into the board. I don't want the back. As a BBS sysop, I find it good practice printed logs of their BBS's up to three years have been hearing rumors that the

government telling me what I should do with

Charile Tuna Rokomo, IN

major publications dice us. system operators. And by sending letters to threats by uniting with your users and other many of them out of existence. Counter these bulletin boards, on action that would put threat of charging business phone rates to being put on system operators. Another is the This is only one of the many pressures

Another Method

cellular, reprogramming cellular phones for involved with modifying scanners to get and, like always, I read it cover to coverprogramming procedure for over 45 cellular is beyond the normal grasp. I have the satellites, and just about anything else that the obvious reasonsi, data reception from Very enjoyable and entertaining. I sm manuals, and wiring diagrams. Between for all states, several COCOT payphone know, USR Newsletter sells lots of unusual lots of ideas. For your readers that don't your magazine and the URR Newsletter, I get phones and a complete listing of tower codes edsterios. progressed from there, Just thought I would for years, I got my start in CBs and parts and plants. I have been a fan of theirs let you know that I appreciate your I Just received your Auhumn 1990 issue

just like to explore. Bin 99 holds the COCOT that had the serial numbers on the passwords and, to my delight, I now have an than that. After opening the phone I number supplied by 2600 will yield any to default. Ato't it wooderfui? Using the ANI surprised to know how many phones are still 96 holds the accounting access code. Default programming secress code, default is 99. Bin changed of course. I'm really not into their. I the same location, with the passwords operating psychone. Just for fun. I left it to Now'l can remove the statte rain to dump the discovered a programming switch inside. look mechanisms. It don't get any easier will reset all bips to default (except you gain secess, it's fun to play secund. ##0 the phone. Call the phone and enter 99. If COCOT number that is not on the outside of is, you guessed it, 96. You would be Now for the good stuff. Recently I found a

AROUND THE COUNTRY

Stamped on them! mechanisms had the serial numbers controls the long distance calls. Naturally, I phone was replaced. Guess what? The lock ft. Less than thirty days after I did this the location and open it. But it sure is fun to call can never go back to the phone's physical password, time, and date], \$410 will reset latra-Lata 11+ seven digits) calls. Bin 14 gate for local calls and But 12 controls the rate table adjustment mode. Bin 11 is the the race table bins to 0, ##11 will enter the

Mr. T

Suggestions

considered a failure. time picking it up and thus you will be duration. Secondly, don't leave this tape on pitch of the tones and ACTS will have a hard the ear or the sun since it may change the suggest using a metal tape for leager them on a tape recorder. From experience i for you while you stay home and record to the pay phone and deposit the quarters brother/ sister/ friend/deg/rat etc. go down phones, you can have your mother/father/ instead of looking for two adjacent pay adjacent phones and do their deed. However, Obviously, one has to then go to two plugs in straight to the "mic" of the tape Fick-up which goes for about \$1.99. This Shack sells something known as a Telephone red box tomes. There is a simpler way of was irrelevant as far as the recording of the In your last tosue you had an article on building a telephone coil which I thought doing this which has worked better. Radio

great idea. Keep up the good work. setticle reconcerdensity and thought it was a I enjoyed the tone dialer conversion

call. Think about to. New the BDS world lacks such boards to boards networked, which was wonderful Which was fantastic. Both your bulletin generally filled with "codez-asking" kids. No the BBS's to the backer community are will be interested in is "codez". These days will soon be there to take over and all they important. The next generation of backers The communication between hackers is very introduce new BBS's. When Central Office had rooms to introduce now ones to hacking real knowledge is passed on. The Toll Center and Toll Conter were running it was great What I think 2600 should do now is

Dear 2600:

Technical Suggestions

Wiretaps" (Summer 1930, page 24): work. Some comments on "Hunting for Dark Camival in Berkeley. Keep up the good dust picked up a copy of your zine at

does Sprint. The analog hybrid line going impossible to detect. software, for all practical purposes cise's bitetream. the switch to send you a copy of someone Beil or the NSA, it is a simple matter to order switches Bell likes to talk about. If you are what actually gets switched in those 5ESS PCM (pulse code modulated) stream. This is exchange, where a objp called a CODEC (Subscriber Line Interface Circuit) in the into your telephone goes into a SUIC coder/decoder) converts it into a digital Takes does not use series wireraps, nor This is a wirerap in

answer when picked up, or very poor audio they are rapped fails to ring or fails to Which is why some lines behave futtry when maximum rating of a hundred yelts or so. burn. Op amps, on the other hand, have a In and twice that before the SLIC starts to 500V before the teleo surge suppressors out stand the phone gystem than a dead male tices have a high voltage rating, about 300more like 100-150V to operate the bell. while conducting a conversation, but it's volts sounds about right for the analog line and are equally immune to advice. Twelve Fortunately, most FBI agents know less

the voltage off both the capacitor and the directly to the phone lines or you are be to discharge a photoflash capacitor (830 UFD at 300 willst into the line and look for to burt someone - peobably yourself. Bleed cent IC. Don't exempet a 300V power supply line before untaping anything. If you can't of lobbing a human being as well as a fifty double check. The capacitor is easily capable working on the line or on a nearby one. Then dielectric tape and do the same with your SLIC and take down the ends of the line with Get a friendly teles person to unplug the some caution, as the capacitor is not a ray. to that great transistor in the sky. But use end. Confirm that there is no lineman the bright flash of light as the op smp went The best way to test for an op-stop would

LETTERS FROM

easy to by someone. from telephone poles peking at high voltage project. This method is safer than dangling get a teleo person to help you out, drop the lines with a multitester, but it is still very

> communication between distant locations corporations for direct data or voice dedicated lines leased by companies and

building. These ranged from hardwired

at fee bland? call, although identifying the guilty party Compaq or Kaypro and handing it to a guidelines for emitted RFL Think about call? Or his girlifiend is a cop and she traces can read the packet headers and trace the might be more difficult. Perhaps your backer hacker with a scarper to intercept the fatal something. It should be fairly easy for a banding - the 747 will be more likely to hit collision, do the deed during takeoff or control over the plane. If you want a wire" automics, leaving the pilots with no emitted by the PC could jum the 747 fly by few files. The electromagnetic garbage the bear while it's in the air and download a passenger as carry-on leggage. Then dial up putting a mobile phone inside an early partable computers were very lax about FOC (Plane Crash), page 311, x lot of the early As for downing a 747 with a phone call

Oakland, CA

Caller ID Override

circuit or add-on box to your own home appearance of cooperation without a "P" for privacy while at the same time giving the ultimate defense against the invasion of you are calling? It would seem to be the phone to send a false number to the party do you think it would be possible to build a systems that are gradually being introduced. privacy showing up on everyone's caller ID From what you know about the caller ID

Absolutely. We hope to see someone do

A Phone Company Tour

chapter of the American Society of went along with a roor offered by the local 4ESS owned by AT&T here in Circinnavi. I technology were present in the same office, because four or five different levels of Mechanical Engineers, it was an interesting I had the opportunity recently to four the

boards that were the rage earlier this was still using the old style plug-and-socket to the same long distance point. This system only pay off if you made a hell of a lot of calls making a long distance calls. I pathered that in the New York office without actually in Cincinnati and immediately ring a phone (Saks Fifth Avecue can pick up a phone here this was a pecty expensive option and would

outdated analog circuit boards to the new electronic switching ranging from large. use; but there were several levels of Sentence process of installing. The whole system was fiber optic system that they were sell in the There were no mechanical switches in

suspected that there were many times that eight hours after a power fashire. remotists are reading this? ance it entered the building. If hope no in diameter and it was entirely unprotected from the Chickmati area central offices was emanating from the Omermati 4888. I had I would estimate it to be only a couple of feet small the cable cluster coming into the 4ESS many customers. I was also amazed at how mainber since this is such a big area with so 15,000 outgoing long distance lines I was surprised to find that there are only

abviously thinking that a group of attenuoted to go into a little switching theory knowledgestale and informative. They even bead in shame. other questions similarly asinine and inside. here to California that you talk over?" and is there really a single wire that mine from erigineers were busy asking questions like. of such information. I was, but my fellow mechanical engineers would be appreciative was cenharrassed for them and hid my The AT&T fellows were quite

magical little tones, it of course, scanned all visible paper for phon numbers, but whole bloody system is based on those about the ANI for this area, and in everything was well hulden. My mouth charges for touch tone service when the woodering aloud why the phone company I torally strack out in asking questions

AROUND THE WORLD

operational manuals for the 4ESS sitting out watered when I saw the full set of

Fretty neat, that connections and did some diagnostic checks. technicians on duty knew what had while we were listening to switching theory. as he accessed one of the downed of the guys even let us peer over his shoulder printers started dumping trouble codes. One happened in about fifteen seconds after the four central offices off line for a while. The eastern Chedoratt, thereby outring three or eather important cable chaster somewhere in It seems that someone dug into a large and A major alarm went off in the system

information on ATM machines and their tilk a blue box, a red box, and some dialing reviews: equipment reviews (seamners, pen area code; more BBS numbers; book exchanges other than New York area; ANI searches, etc.); comprehensive listings of programs imodem scarches, extender phreaking); more bands-on information; and things that can be used for hacking and registers, phones, computers, and other and CNA (with acress numbers) for the 513 Estings for an IBM compatible computer for some suggestions for future issues: program Well, enough about my little tour. Now to

everything humming smoothly for alxout

batteries that would supposedly keep

backed up by a mountal of massive wer cell

Cincinnati

Assorted Thoughts

of their long abused holes: they got rid of the them a while to figure that out. Schoolly who s/he claims to be, it sure took recognize whether or not the person is So the person you're billing will probably play it to the destination to verify the billing. will ask for your name and digitize it and with a human operator, instead the system bill to another number or make a collect call operator for collect ralls. One can no lenger In my area, Ma Bell Enally improved one

around any change and you still save you back. So now you don't have to carry other end has some common sense and calls pay phones. The good part is that it's also make five cent local calls from public Dispeluity the person who picks up on the the phone number of the pay phone. and when the system asks for a name, say completely legal. Just bill the destination Anyhow, with this procedure one can

> yourself a good twenty cents fit does add up eventuary).

addresses via US mad. Does anyone happen pretty sure there's a way to do it directly. through a net but it's too expensive. I'm to know how to secess it? I'm using transmitting data in printed form to Telenet) is doing some sort of deal with By the way, Sprintnet (also known as

don't have a touch tone phone or if you say operator for callect or third party calls if you if not identical. You can always use an that sentee. MCI Mail has something similar T SUDD TROP Call 800-TELENET and ask them about Reyboard Jockey

Dear 2500c

too nice, but I really didn't know any better. water under the conscience tells me were not software and a lot of naive curiosity. I was breakup of the phone company that some things in that dark time right after the what card plugs in where, and I did do some extent of my hardware knowledge is knowing third grade computer literacy lovel and the never a "hacker" per se, since I have about a Peripherals 2400 externall, some "borrowed" Micromodem II (since upgraded to a Practical (which I still use with pride and some choice and modems, I had a second-hand Apple II+ the market leader) I discovered computers the pan that would never oust the Apple II as put it this way, I can remember when the is exactly how I feel. I am in my mid twenties hardware enhancements), IBM FC was thought by some to be a flash to and way, way back in the silicon dark ages magazine...." letters, but unfortunately that those "Gee, I really really like your I really don't want to write another one of · a · Hayes

to read those who did such things were always fun to hack rayself, but it's always been fun to different computer systems and how to get included) take for granted. I heard about 89.9 percent of people (myself sometimes world of everyday technology: I heard about of a letter to the editor. It also opened up the find out how I could do it, and stories from into them. Frankly, I've neser really wanted to test the limits of the phone system that the rainbow of boxes that certain people use immediacy of a telephone call and the depth new method of communications, with the With my little toy I discovered a whole

In short, I experienced what the framers

LAST OF THE LETTERS

the stratesphere of aoctal collapse. up until it can go no higher and sufficestes in recalls the with tougher lows, and so it sortals otherwise latent tendencies in people, Since do believe that unfair laws will awaken cause eriminals because there is a certain the face of unfairness, those in power will popula will increase their "law-breaking" in things at the expense of other humans, but I some not. New, I'm not saying that laws else. That is why we have laws, some fair may implage upon the freedom of someone wish, eventually the exercise of that freedom hand in hand; if you are free to do what you of the U.S. Constitution had hoped for when percentage of humans who will always do still useful. But, freedom and paranota go unformed ion should a little to the gray, it was from WASO's Bob Grand! Even if the they sat down in Philadelphia in 1787; the free and open exchange of ideas (to benow

user's dream machine, but who's really doors off even a fully-loaded IBM power Hearts and Mods' of computer users, but heard of them? Jobs' neXI? They can blow the disk drive buffs know about the Amiga, or even Steve who outside of semi-hardcore computer compater, and Apple Compater can Win the for marketing a bug-ridden, hard-to-use is publicity. Sure, IDM gets all the publicity self-appointed "government watchdng enough self-incriminating information our post-industrial society. Since cationies have of combating the unfarmess in key to our so called Tafonmation Economy information is not published. So maybe the groups" in Brooks Brothers suits, but that own pamphlets and press releases to keep special across all of the U.S. government's access to information if use day for it. There is more-or-less free society and we can get what people know. Fortunately, see the in a find if incumbent upon themselves to control whether they are government or business has ever government policy), those in power, information has become power in our society Your publication is one way responsible (witness the mordinate influence that CNN So this isn't the Information Age", it's What does this have to do with 2800?

can. It's easier to believe that way. you must de, tell the most outrageous lie you The Disco Strangler South River, NJ

the "Publicity Age". As Adolf Hitler said, if

COCOT Info

Dear 2500:

generared: computer modern, the following was recording this blop and playing it through a computer tone and an ASCII blip. Upon (2)2-268-7538) and noted it answered with a following, I called the COCOT you listed Thought you'd be interested in the

resulted in being disconnected. I could not above at Ititial connect. This was done at get any kind of response other than the Attempts to back thee the COCOT

article on COCOT's which appeared on page 31. Autumn '90. The two numbers connect numeric strings. at 300 band and send the following alphain the 212 area code) are the ones which appeared as a response to a letter about the we've discovered. The phone numbers (both This is just a little something interesting

212 268 6129:

43*910)11617114J*00000E T6*2122686129*41465*CA2202*6837*1

212-208-6129. T-6*2122686129*41465*CA2202*6837*1

42*9101]16171205*00000D T-8-3132656128-41465-CA2202-68371 212-268-6129

43:9101116171228*00007 212-258-7588

22,91011191716350000 Ti@#2122697508*51880*CA2202*7687*2

The Mute & Bach Wai

who can applain what those monters mean? the differentiation we print its there someone taking it upon themselves to go further with Note this is when we like to see, Menders

If you've got a field of expertise or a 2600 is always in need of writers! story to tell, send it in to:

2600 Editorial Dept. PO Box 99

Questions? Call (516) 751-2600 Middle Island, NY 11953

Dear 2600: 300 band 67*9012216073424*00000 Th@#2122687538#33725*CA2107*8984*0 Waterbury, CI



CAN YOU BELIEVE THE THINGS PEOPLE SEND US?

OUR CONTEST

winner would get a tree lifetime readers to come up with replies. The published a bunch of negative letters that subscription. We got a pile of really good were written about hackers. We invited our way to validate your identity. piece below, confact us and think of some the subscriptions. If you recognize your we have absolutely no idea where to send very good job of identifying themselves. So Unfortunately, neither of our winners did a realized that we had two winners. entries. And when the dust cleared, we In our Summer (950 issue we

Entry Number One by TELEgodzilla

intriguing - particularly the section dealing development of the first atomic bomb. similar this situation is to what Dr. Richard who attempt to learn more about systems. with the other point of view against those shame, and disgust I was struck by how As I was reading these letters of enger, Feynmann experienced during the I found the Summer 1990 issue very

give a standard assigned combination pages 119 to 137, Bantam Books). entitled "Safecracker Meets Safecracker" atomic bomb in Los Alamos (chapter makings of the then being developed Dr. Feyrmann was able to crack open U.S. go around and open the Army's sales then being made. What Frynmann did was standard assigned number was just that - a didn't bother reassigning their sales with reset the locks. Most buyers, however, number to sales, instructing the buyer to with a safecracker, how most safe factories Army safes which held the plans and arrived from the factory! to change the combinations after the sales trouble for nobody had thought of bothering able to open one cut of every five) with little within the Los Alamos compound (he was standard assigned number for all safes new combinations, tailing to realize that the Feynmann had discovered, after speaking Feynmann, there is a chapter relating how In the book, Surely You're Joking Mr.

> contary - he was nearly thrown out Did the Army change the safe combinations? Sure respect and understanding? On the eventually, but not until after several How was Feynmenn treated? With

well enough alone? months into the project. Feynmann doing? Couldn't he just leave So you ask yourself - what the hel was

atomic sub-structure led him also to find new and better understandings of the same curiosity which led him to develop ways in which to open up Army sales. No. Feynmann had a curiosity - the very

wild forms of nervous neurosis), for man is us is akin to trying to stop a mountain of more trouble (besides developing new and water. Even if we did, it'd only bring about differentiated from snimels on many points curlosity from enveloping the world around controversy surrounding hackers: people rules the peck. are naturally curious. Trying to stop this and chief among these points, curosity This is the crux of the argument and

through their house' without stopping and systems, Instead, we all merrily throw curlosity and drive toward protecting their positively utilizing the skills and powers of considering how to find out ways of things about, rant and rave about how spoke of harnessing the very same those capable of doing so. terrible it is for people to go "walking it's lascinating, but none of these letters

discussions is the fact that perhaps privacy being raised throughout any of these nearly dead - and it an't by those "kids" But an even more important point not

bigger and more nasty people who grocery store, pay taxes on a regular basis. social security card, maintain a farm or a person - whether you're in the armed etc. - the fact of the matter is that there are loan, possess a driver's license, hold a forces, receiving or have received a college files the U.S. government has on each rummage through your house on a regular When you stop and consider how many

WINNERS

basis - and you don't even realize it!

accessed your credit records, time you receive junk mail, somebody which seek only to find new markets to sell status and income standing to corporations their products. It's a point of rule that every regularly sell information on your credit today. TRW or Dunn and Bradstreet probably one of the greatest non-issues Protection of our credit records is

the mail for \$13 - as the Nejdorf case to get information that they could receive by taking a walk through telephone companies And we're worried about punk kids

away scot-free. Somehow the real criminals are getting

upon themselves to learn more. themselves and take the time and risks people who do care about the world around feel better when I know that there are our loes. And in this apathetic society I also for we all learn much from it; it keeps us on effort to find ways into computer systems, I respect people who take the time and

market; this is what makes our country Seeking out information makes us grow persistence. Having information hidden and become more competitive on the world away is anathems to democratic freedoms. maintained through diligence That's not only curlosity, that's entrepreneurship. Equality is never something given; it is only achieved and

and degree private and public institutions the average citizen. much information is constantly available on employ people such as myself, and how shocked if they found out to what extent many of these people would be mildly As a professional operative, I think

and somewhat naive. Attack TRW, Exxon, up yourself This is a bigger world than you this talk of anger to be utterly misdirected realize and, as a professional, I frankly find than for their impassioned curiosity. Grow "hackers" as threats for no other reason I have little regard for those who brand

> psychiatric care, or even if you had recently checking account, car insurance payments, meant to take information about your purchased any Elvis records: sure that it works - even if that system is system are those who are going to make some sort of computer system and with that faceted interests is inevitably going to have public or private - possessing of multithe Republican Party.... Any corporation -

'experts' never realized existed to discover new means of accessing actually read) and yet we have those able people, most particularly its youth. Here we individuals to arrive into prominence, for we information which even the so-called youths cannot read a map (much less stand, bitterly complaining how many are a country that is losing touch with these hackers are young. We should come (and pray) to expect more of these It is not surprising that the majority of

inner strength. particularly those who possess this great new and vital means beneficial to all to exhart this raw and excellent energy into desperately needs, rather than reaching out We are punishing talent that this country

through your garbage; go for the taceless that we should be watching. consequences (as well as those who rule) without even bothering to think about the yes, political issues. For it is they - those professional bastards who keep and who maintain those gians mainframes they can sell you watches, cars, beer, and maintain a detailed profile on you so that No, don't go for the kids who rummage

It's time that we start noticing these little emperor is node should never be punished The child who discovers that the

Entry Number Two

whether or not what I'm doing is illegal or do something, I don't debate in my mind explore. When I sit down at my computer to programming as an art, and I was born to and the endless possibilities it poses. I see I'm a hacker, I worship the computer

N DEFENSE

programming, and those with an insatisble it" extremely feasible. That being the case or wrong, as the definition of these terms underground activity. This type of person inevitably, into aspects associated with aspects of the computer world and themselves into the abundantly different there is more to a computer than depth so limitless that it makes 'just doing explorable, with a scope so infinite and a medium which is so immediately unethical. I just do it. The computer is a it. He had a desire to know, so he just did it. his discovering the New World would have explored new worlds because they were the means. Columbus was a hacker. He the hacker, does not think in terms of right are today. We owe a lot to hackers. the desire to understand the world around civilization as we are today. It's because of that we "weren't supposed to do", we authority and shied away from those things always remained complacent to those in dressed in animal skins if people had Although we probably wouldn't still be history, where would humanity be now? for the hackers of different sorts throughout depending on how you look at it. If it wasn't questionable means. Questionable, and this desire to know sometimes leads to Humanity has a history of wanting to know care less what the church had to say about what made a human tick, but he couldn't church to dissect dead bodies to find out things. In his time, it was forbidden by the explored the human body, among other on the Native Americans. He just did it there. He didn't stop to wonder what effect The means is the ends, and the ends justify depends on how you look at life in general instruct to learn and know easily assimilate them that we are at the point in history we those people who dared to know and had wouldn't be as nearly advanced a Leonardo daVincci was a hacker. He

thrill and relish the challenge. I was once hacker. Two done enough to understand the under surveillance by the phone company Although I'm not a gung-ho systems

> to comment on this subject than your we all have inside of us called "nacking". experience, and that's something I have a average Joe computer user. It's called I feel I'm at least that much more qualified for "being where I shouldn't have been," so fair amount of due to that peculiar instruct

as much as life is a game. If you choose to belong and equate this to breaking into hack you are going somewhere you do not personal integrity dictate where the game rules? You play the game as you wish and lose. What are the rules? What are YOUR it. If you win, you win, and if you lose, you play, you accept the risks associated with that is much overused. Hacking is a game someone's home. This is a stupid analogy come, and only your conscience and you deal with the consequences as they Some people believe that when you

out a :357 magnum and blows a two-inch point, one thing being the owner of the owner. Many things can happen at this hole through your chest and you die. through his file cabinet, whereupon he pulls house wakes up and finds you rummaging nteresting that will tell you about the you start looking around for something Scenerio: You break into a house and

breaking into a home it is usually for when you really put any thought into it. unlocked home? Someone breaking into a rather an innate curiosity. Can the same be anyhow). Hacking is something you do files (which is not the definition of hacking etc.) and rarely just to dig through personal When someone goes through the trouble of the process of exploring, a very tempting bit crime. A hacker is merely exploring. If, in residence usually has premeditated a said of a burglar or a rapist walking into an likelihood of any intent to do harm, but With the majority of hackers, there is little casually in the comfort of your own home malicious intent (i.e., to burglarize, rape someone's house doesn't hold up too well hacking into a system and breaking into You can see how the analogy between

OF THE HACKERS

you take it or leave it? What are your rules? comes down to your personal ethics. Do door open, do you take a copy without or leave it be? If you go to buy a know if you did or not, so the question paying for it? Nobody would probably ever the last person to purchase a copy left the newspaper from a machine and find that make a decision; does he download the tile of information is found, the hacker must

are your rules? Are you wrong for wanting to learn? What they wrong for wanting to make maney? eaming the system, which you enjoy. Are around in their files? Neither? Either? firms, is it alright for them to sell your money, which they enjoy, and you're Both? What are your rules? They're making information as well as for you to be looking them to be selling your personal looking around in their files? Is it wrong for personal information and for you to annoying sweepstakes and mall order your personal information to those of those mailing list companies that sells just hacked into turns out to belong to one Scenario: This strange system you've

risks and lost...but the game is more you ain't passing go, baby. You took the Well, now you've been caught. You played powerful and all-knowing Secret Service around \$79,449 (actually, \$13 with a complicated than that the game and landed on "Go To Jail", and and all in your path with its mighty wrath tracks you down and decides to smite thee flat institution of unfathomable intelligence \$79,436 legal fee). Eventually the all-Overview" which is purported to be worth some file called something like "E911 Bell South computer system and heisted particularly heinous, such as broken into a Now let's say you've done something

broad-scoped action taken by the very protect our God-given rights. The minute government institution which we entrust to game whether we like it or not, it is necessary to explore the effects of this Since we all have to participate in this

> criminality and injustice. Yes, even more so scanest and speak the loudest in terms of than that evil 19-year-old punk with the details cannot be ignored, as they are the

crumbs at the bottom just in case. developed a method of encoding data on undiscovered super-genius who has try something, you know) is some mother in handouffs with a double-barrelled devicus scheme somehow! Maybe the cord on it; it must be involved in this loast. They want to check those bread shatgun pointed at her head (she just might four men in dark sunglasses, his poor likeshood is being physically restrained by and dignity at this moment, who in all immune from this rampage. Hey, it's got a the abode where it dwells: the disks, notes, then eventually life itself. So they see no this plot to disable the emergency phone document made its way through. To them, person being stripped of all his possessions IV, lamp. No, not even the toaster is books, magazines, music tapes, stereo, everything else that looks suspicious inside problem with confiscating this system and government, the country, the world, and system and lead to the downfall of the it's obvious that this system was involved in trail, come across one system that the unbeknownst to the owner of each numerous systems via a network. particular system. The SS (Storm document' makes its way through troopers), while tracing this document's This treasure dubbed the *E911

one so commonly overused by those who gather evidence that proves that your guilty by association? Do the cops rampage as he attempts his getaway. The cops trace No. Is this analogy more suitable than the neighbor's house had been burglarized? terrorize you and your family members to confiscate all your possessions and his trail through your yard. Are you now burglarized a home runs through your yard into your house with destructive force, Scanario: Someone who has just

(continued on page 46)

disconnect the second call without linking it. is now linked to the first. If you want to the second call answers, you hit another star puts the first call on hold. Then you dial the conference mode. You can then dial 12 which star for a full second will put you in 1033 calls. When connected to a call, hitting a on FON card calls and not on 10333+ or 950allows you to conference calls. It only works surcharge on top of the regular PON card dial 14 instead of 13. There's a 75 cent for a full second, then dial 13. The second call area code and number of the second call. After the two phone calls. Maybe someday they'll surcharge (times two) on top of the charge for fmally get it right. There's also a new Sprint service that

number followed by your Allnet calling oard you can place calls by dialing 0 plus the been introducing. By calling 800-783-1444, number. Or you can dial a two-digit "Speedlink" code followed by a star and then Allnes has a whole host of services they've

rental establishments, all of which have toll you to a variety of airlines, hotels, and our your calling card number. This will cornect to Allact's 800 number, then enter your this service. If you hit a star after connecting kind of crazy to spend 20 cents a mirrate using tree numbers already, so you'd have to be InfoReach (recorded armouncements on the a minute), Call Delivery (for \$1.60 you can entertainment, and international time and stock market, horoscopes, sports, calling card number, you'll be able to access dial" and save. What does this mean? It's prochate. Alinet urges its customers to "power delivery to any phone number in the U.S.). record a brief message for immediate or future weather costing between 30 cents and 70 cents a prompt or the end of a tone before you they won't charge you for uncompleted calls.) 49 certs a minute for each caller). In its little rate of 38 conts a minute), and Voice Mail (with a 7-digit ID number and 8 of a prempt or tone. It saves time, plus you start dialling as soon as you hear the beginning continue dialing. If you know the next step. Alloct says, "Don't wait to hear every word of super fright coing, actually. It seems that Teleconferencing (\$2.00 for the first minute, customers for the time they spend dialing the company Matantly admits charging its won't be charged for time spent listening to you access the Alinet dial tone. (They swell Althet now charges calls from the moment case we're aware of where a long distance instructions you don't need." This is the first

service like USA Direct and Sprint Express. 900-99-1450: Sweden: 020-79-3934: 1067; Italy: 1678-97038; Japan: 0031-12-Hong Kong: 800-6159; Israel: 00177-150-France: 05-90-2919; Greece: 00800-12-2100; 197; Belgium: 118671; Denmark: 8001-0658 and numbers are: Australia: 0014-800-125-They call theirs Option USA. The countries 2453; The Netherlands: 06-0228491; Spain: Allnet also has an international call-back

in the street

access Allnet by dishing 800-955-1444. Kingdom: 0800-89-2695, Canadians can Switzerfand: 046-05-5812; and United

comparies have spring up offering CLI that British Telecom refuses to provide the country over Caller ID, it's interesting to note (Caller Line Identification) devices even appeal over there, so do rip-offs. Several service. While privacy may still hold some companies manage to make these offers? number of the calling party. So how do these British Telecom doesn't pass along the though it's technically impossible since their beart desires. In other words, this is about rings. And the person can enter any number party's magical device as soon as the phone person entered is displayed on the called completed. Lo and behold, the number that the higher phone number before the call is Their devices simply ask the caller to enter as far from Caller II) as one can get. With all the fassing and fighting in this

technology" over the past 20 years, say the system lotown as SWITCH. "It's time to take will be replaced by the new Bellcore designed the systems known as COSMOS advantage of the advances made in computing (provisioning) and TIRKS (trunk assignment) in late 1991, with implementation to follow a absolutely nothing, is scheduled to be installed people in charge, SWITCH, which stands for into two parts: SWITCH is the "provisioning year later. The new system is actually divided children (New England Telephone and New current COSMOS users in NYNEX and its will require asynchronous terminal access. All the frame work management part of COSMOS synctronous terminal access, whereas FOMS part of COSMOS and will require a while back but it now seems close to reality terminal survey" to evaluate the needs of the We imagine similar plans are being made all future. SWITCH was first mentioned in 2600 York Telephone) will be getting a "network According to an internal NYNEX memo

around the country.

causing mayhem with telephone and computer department, a former resident "known for the police. "We pick up the phone and we"ve lines" has been connecting their phone lines to translation of this is that he/she is able to get claim the villain is able to gain access to the the other end," they say. Newspaper reports got the Los Angeles sheriff's department on people all over the world and billing it back to years. Now there's a war between [this triend of this nasty person who contacted and use a calling card number. According to a police department's access code". The "telephone computer system and use the My friend is a notorious hacker." person) and the police... for over two years. 2000, the police have "harassed my buddy for According to the Amsterdam (NY) police

electronic house arrest. These subjects will who are also on probation will be placed under actioology experiment. Whenever there's a you may get to take purt in an exciting new doesn't pass, it will call back to give him a and ask him to repeat eight states. If he then call the gang member at a random time succession to a computer. The computer will repealing the names of 22 states three times in have created a "personalized template" by: retaliatory strikes, etc.), known gang members hird of trouble in the area (gar); wars, calls the probation officer's beeper. And a second chance. If he falls again, the computer computer? Also, what happens if the phone is stay home instead, maybe he'll want to go to place late at night? If a gang member has to question is this: don't most gang fights take recording is made of the failed response. Our using a modem? Will call-forwarding be during house arrest? Will call-waiting become busy? Is using the phone going to be illegal he's going to get a phone call from a steep at a normal hour. But how can be when mandatory? And what if the garig member is If you're a gang member in Los Angeles.

news from

that is able to generate a response in his voice member invents a voice recognition system. illegal? And what happens when a clever gang when it hears the name of a state?

does basically the same thing. voice mailbox through the Yellow Pages that around \$15 a month you can get a single line still need an AT compatible computer. For that can handle up to 75 mailboxes. You'll password". For \$4000 you can get software because "only the officer knows his claims the system will provide more security officer. Ross Distributing of Upland, CA contacts. CASSIE will then page the police computer system called CASSIE SX-4. informants can leave messages for their police police/informant relations. By dialing into a Hi tech is also coming to the rescue of

market! There you'll find all the 20 aloty cuins you need --- at a cost of between 200 and 1000 Eastern Europe but make use of the black what do people do? What else is there to do in but that doesn't fit into the phone either. So into the phones. There's also a 20 zloty bill can be found quite easily. But they don't fit There are two other sizes of 20 zlody coins that commodity since they're in such demand. But 20 zfoty coins have become a searce 20 złotys (stili less than one American cent). at a payphone in Poland was mountly raised to psychone, think of this; the cost of a local call The next time you get all flustrated at a

proposed. With the blocking capability, blocking feature that some groups have same information as the person who makes the proposing to offer Caller ID without the call, namely the phone number of the person who receives a phone call is coulded to the newsletter: "Elizads Bell believes that a person 1990 issue of Illinois Bell's Telebriefs following excerpts come from the December Illinois Bell is applying for Caller ID. The

> used." What they don't seem to be taking into plussed it that way, people might just think the non-abusive calls. Of course, if they Bell is really interested in Caller ID'ing all of believe that, despite their sales pitch, Illinois continue to dial direct. Which leads us to methods, very few abasive callers will anonymity. Since it's technically impossible to those very same stops to maintain their numbers from being displayed, this dibiting abusive callers would be able to prevent their identify someone who uses the above account is the fact that abusive callers can take public phones, and cellular phonos can be necessary for individuals to ensigh in their the benefits of Caller ID.... When it is anonymity, operator assistance, calling cards,

business, but ripping you off to protect you to see so much diseasing going on in the phone another one-time fee of \$16 to process the required for the whole order. It's had enough all likelihood, less than ten keystrokes are order! Businesses have to pay even more. In have to pay a occ-time for of \$5. Then there's ripped off by 900 and/or 700 numbers you block such calls and it didn't cost saydung. from being ripped off is more than most Now if you want the privilege of not being comparies, told us not to worry; if was easy to Jersey Bell, and most other local phone first started being dialed on masse? New on the public. Remember when 900 numbers New Jersey Bell has really pulled one over

will occur only once every six years. time; and, on the average, a "fault on a line" telephones are in full working order at any one percent of British Telecom's 95,000 public answered within 15 seconds; ninety-six the first toy and seven out of eight of those are of calls to "directory enquires" get through on get through on the first try; about 90 percent percent of the 80 million calls made every day Some British statistics: More than 99

our exciting world

customers, we will still have 25,000 who are disappointed." we fully satisfy 99.9 procent of our 25 million ourselves. To put things in perspective, even if we fell short of the high standards we set (galures ... Unfortunately there are cases where connections, clearer lines, and fewer call electronic exchanges offering faster of customers are served by modern digital or digital exchanges. And more than 70 percent million customers are now connected to local According to British Telecom, "Nearly 11

account to your name. pay for the phone company to switch the phone line already installed, you wen't have to other words, if you move into a house with a telephone line without a break in service. In for customers who take over an existing with. There are no longer connection charges unfair charge that we in the States still corrend The British have also done away with an

telephone boxes, but at least they work. The State ownership. We may not like the new synthesised voice gives the alarm time. To press "star gate 55 gate" and the exchange"s unmeasurably since it east off the shackles of letter recently appeared in The Sun: "British gate." But all is not well in the U.K. This cancel the alarm call simply press "gate 55 and minutes. To check you've got it right the buttons on the phone's tone pad for hours 55 star" followed by the time you want, using out, how to take advantage of all the phone's connected homes, but few know, or try to find up. Simply pick up the receiver and dial "star pounds to 2.47 pounds but for just 13p a call operator alarm service has doubled from 1.20 functions. For example, the cost of BT's British Telecom customers have digitallyrelecom services have improved you can programme your phone to wake you the most from their telephones. Almost half of phobia is stopping millions of people getting phote company publications: "Push-button A couple of other British ridbits from

> a private service. it is a private company it is still supposed to be accomsider plans to charge 35p for Directory responds to them. So we hope it will Enquiries. BT is now ringing up profits at the company still gets complaints, but at least it shareholders, but must not forget that although rate of 8 million pounds a day. It has a duty to

operator. We don't know what AT&T is up to service (800-222-0500) or your AT&T that you can't already get by thating customer only" (800-223-2000). We can use this a toll-free number reserved for "members with this gramick but we'll keep everyone We are flabbergasted. There is nothing here Callers' Club benefits without interruption. move, so that you can continue to receive your specific locations, order your AT&T card, get prices for the cost of a call between credit for mischaled calls, ask about your bill. periods and calling plans, receive immediate exclusive number to "find out about discount haven't heard before numerous times. Finally and "valuable savings". Again, nothing we sponsured events" in our area. Wow, Unless also privy to announcements of "AT&T couldn't be obtained in the real world. We're so far we have yet to see any discounts that about last issue. We doubt AT&T woo't tell AT&T's messaging service that we wrote for new AT&T products" like Voicemark, to be virtually nothing this "club" has to offer. do, and no strings attached." There also seems came in the mail a couple of months apo a very long time is the AT&T Callers' Club, It from bome, and notify AT&T when you earn how to access AT&T when you're away impressed. A chance to win "fabolous prizes" that includes backer raids, we're not There are premises of "previews and discounts customer. There's nething more you need to demanding alteration. "You've already earned non-members" about their new services and your membership just by being a great About the most useless thing we've seen in

(continued on page 44) Page 39

informed. By the way, they sent everyone a

To Our New York Telephone Customers Beware of Telephone Fraud

suspension of your phone service if you "don't themselves as federal or police investigatorsother telephone companies, or identifying some instances they even threaten law suits or calls from people that you don't know and in helping them in their "investigations," these security officers from New York Telephone or have tried to deceive and cheat New York "agents" ask you to accept the charges for phone Telephone customers. With the excuse of Recently some unscrupulous people-posing as

customers' help in catching crooks. Please, DON'T FALL INTO THIS TRAP. Don't New York Telephone is not asking for its let strangers charge calls to your phone number.

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busys, etc. wanted for radio programs. Also, OLD TAPES of telephone recordings, rings,

you looking for something to buy? Or Sand Do you have something to sell? Are calls welcome and blue "Compaq. Please cards for a 256K Also, expansion assembled kits. WANTED: plans/kits Island, NY 11953. Box 99, Middle and toddy phone contract recordings Emmanuel,

Houston, TX 77070. contact Charles Sillingan, J1819 Fawnyiew,

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below:	Section 3.9 of the TDCJ Rules and Regulations for the reason(s) checked	THE MOCKE PROGRESS OF THE PROGRESS OF STREET
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 (b) Publication contains information regarding the manfacture of explosives, weapons or drugs.

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 of criminal schemes or how ro avoid detection of criminal
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telephone equipment to make telephone calls filesally and to obtain cash and credit cards filesally to clipping.)

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

MALL SYSTEM COORDINATORS PASEL

January 9, 1991

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Part of

00.1 No. 130

YOU CAN BET THIS WENT RIGHT UP ON THE WALL THE MOMENT WE GOT IT. WE'D LIKE TO KNOW WHAT OTHER MAGAZINES HAVE RECEIVED THIS HONOR, AND HOW MANY MAGAZINES CONTAIN CONTRABAND?

Prege 42 2600 Magazine Winter 1990-91

FRAUD ALERT

No. 44

June 21, 1990

News for the week

Telecommunications security professionals, members of law enforcement organizations and public protections may not be able to shut down computer data there if new advocates of backers rights have their way. Support for Legion of Doom suspects developed as reporters following developments in the highly successful Operation Sun Devil crackdown listened to only one side--the

Apparently, the press got interested in digging into whether suspects' civil rights had been detailed after Lotus 123 developer Mitch Kapor was approached by five attorneys complaining of overzealous enforcement faction in Operation Sun Dool, the largest operation of its kind ever.

Rapor, who is president of On Technology, Inc., of Cambridge, Mass., responded by contributing \$200,000 to a defense fund for alleged technoponts. Next, he formed the Institute for Computing Freedom, an apparent foundation for backers' rights.

The highly respected American Civil Liberties Union got into the act after news reports of possible rights abuses surfaced in the Washington Post and New York Times. The result was that a June 9 Congressional Judicial Committee bearing on Caller ID matters was postponed so that backers' rights can be addressed.

Rest assured that the hacker suspects will have highly strigulate advocates at the hearing later this summer.

Assorted Numbers With Abuse On Them

- (800)225 0312 (PBX), two nine-digit codes; (800)535.4991, one five-digit code; (800)326-7800, one 10-digit code; (800)245-6332, three 10-digit codes; (800)843-3313, three six-digit codes.
 (800)327-9488, one 13-digit code; (800)246-8034, one six-digit code; (800)345-0017, six nine digit codes; (800)562-4656, one six-digit code; Fheatures Newsline; (800)255-9679, box 262 and (800)877-5599, a number with high abuse by the hacker OR HID. (800)748-0075, Phillips Fibers. Inc.; (800)441-1333, (800)633-8256, (800)873-5669, (800)877-3444, (800)845-8896, (800)433-4467, (800)873-5966, (800)633-4102 and (800)535-6246.
- "Hackers are going after a carrier": (800)986-XXXX.
- PBX: (800)223-5517.
- 950-0511, three six-digit codes; 950-1022.
- Diverter: (800)/22-7777.
- (313)980, plus the following mailhoxes: Black Wizard, 8730; Mysric, 7760; Derk Side, 758 and 7240; Threak, 9077; Macho Man, 6846; Crocodile Posse, 4886; Sid, 7095 (personal box), 9157 and 5610 (Sid's codeline), Violator, 8839;5657 (codeline).

Fraud Alon, © 1990, Communications Fraud Control Association

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THIS USEFUL NEWSLETTER IS AVAILABLE THROUGH THE COMMUNICATIONS FRAUD CONTROL ASSOCIATION, PO BOX 23891, WASHINGTON, DC 20026 OR 7921 JONES BRANCH DRIVE, SUITE 300, MCLEAN, VA 22102, (703) 848-9768

far the most valuable thing in the envelope. shiny new penny with all of this garbage — by

phone hill will be moch lower. by someone will be much greater and your chances of actually having your message read White House fax number, we'll print it. Your way, if semeone can provide us with the real stamp of the president's signature. By the something in the mail: a copy of the fax with a The plus side is that you actually get pending legislation." Each call costs \$7.95. George Bush, to comment on issues or really should know better, this service tesecommunications magazine TE&M, which a fax to the president! According to the delude yourself into Binking that you've sent provides every American citizen a personal hotline" to the president of the United States. By calling 1-900-USA-BUSH, you can

cannot cost more than \$4 total. And all adultso they can be easily blocked. oriented services have to be on the same prefer they're not interested. Anything child-oriented service and given enough time to hang up if insist that callers be notified of the price of the make sure it's not deceptive. And MCI will policies. Adventising will be extenined to violate any regulations or telephone company must provide proof that their programs don't pitfalls of its predecessors. New 900 services service and seems determined to avoid the MCI has begun offering nationwide 900

They will be able to earry more than 20,000 Communications Corp. of Eden Prairie, minutes is enforced to allow as many people outboand credit card and collect calls every Saudi Arabia, each of which has 144 phones Mirrosota has opened three Phonecenters in as possible to use in Meanwhile, Military than the direct dial rate. A time limit of 10 allows soldiers to reverse the charges for less more easily. It's called "Desert Direct" and its troops in the Persian Galf to call home British Telecom now offers a service for

the latest

of calls from Saudi Arabia (800-323-HELP). Cay, Military Communications Corp. also having trouble paying their phone bill because set up a toll-free number for families that are owns Phonecenters on military bases." throughout the United States. And AT&T has

to these terms so we can try to get some tree names and numbers of everyone who agrood affecting you. We'll be trying to find out the ATACT will toy to keep its feilures from number per mooth (plus a \$500 setup fee), database to complete the calls. For \$500 per computer problems or cable cuts, the geniuses through to 800 or 900 numbers because of fails yet again, AT&T would use the backup backup database. Then when AT&T's system the customer's 800 or 900 number into a in marketing have come up with a solution. massive amounts of callers are unable to get "Alternate Number Translation" would store In light of the recent AT&T failures where

imaginative people can do wooderful fluigs. 800 service.) Technology in the hands of doesn't accept collect calls nor provide any to get their opinion heard. (The White House every poor person in America would be able entrepreneur-type set up his/her 800 number to imagine what would happen if some tich very useful for those of us with imaginations. dialed calls, but not by an obscene amount and of the calls themselves are higher than directly code, and you can program your 800 number Simply call a special 800 number, enter your forward to the White House! All of a sudden, far less than calling card calls. We think this is to forward anywhere in the country! The cost service for those of us who move around. programmable 800 number. This is a great \$20 a month plus calls, you can have a calls, you can base your own 800 number. For best low-cost system. For \$10 a month plus service, Cable and Wireless seems to have the If you're interested in a worthwhite 800

developments

calls? They are now one. amounts of money for operator-assisted shows up on your phone bill asking for huge one of those companies that occasionally companies that occasionally shows up on Remember Telesphere, one of those money for 900 numbers? Remember NTS, your phone bill asking for hage amounts of Here's a reason to stay off the phone.

system at the same number. a message on their hackable voice mail rat on each other by calling 800-473-TALK from NYNEX encouraging its employees to compromise." So begins an internal memo ethical standards. There can be no each of us, is behavior that meets our high is appropriate for our businesses and for be an ethical flatdiy. The only behavior that companies, it is a family of people. We must from 9 am to 7 pm. After that they can leave "NYNEX is more than a family of

confinement and without access to a convicted of seem grossly out of proportion and government portrayal of Mitnick as the register for one of its symposiums before. says it never had a known backer attempt to symposium in Las Vegas last autumn. The reaction of short-sighted individuals who let Digital's panic at his appearance, with some of which was served in solitary to the sentence he received: a year in prison retrospect, the crimes Milnick was Digital Equipment Computer User Society he was harred from attending a computer lear prevail over common sense. hopefully be seen one day as the absurd elephone. This unfaintess, along with biggest threat known to computers. In Their bysteria fits right in with the media Kevin Milnick made news again when

country to get 800 service to the United BellSouth have all been granted permission States.... Ameritech, NYNEX, and Hungary is the first Eastern European

> expert, they produce the best. Why is this? system at all. Pacific Bell is still proud of middle of the day, users couldn't access the and the charge for a user ID is \$8.80. Oh a minimum.... Southwestern Bell is offering to offer electronic telephone directories. It card at New York City payphones. Money Telephone will soon be testing a "debit" produce the most viruses, says a virus breeding ground of "the world's most lethal no more steps According to The New went down causing thousands of people to a lot of publicity, Pacific Bell's Message be called "AT&T Find America" Despite Directline Custom for large businesses. could be a great service if the cost is kept to will be taken out of your bank account 88 using their skills in society.... New York learned how to program but has no way of Apparently, a generation of Bulgarians has computer viruses". Not only do they York Times, Bulgaria has become the completely electronic. No more crossbars. the regional Bell companies to be BellSouth claims to have become the first of maintenance whenever it feels like it.... an "answering machine" that goes down for they're coming from but we want no part of kinds of outages". We don't know where the service, saying it's only failed a few lose their messages. For four hours in the the "alternative to an answering mechine" For the second time in a week in December Center service can't seem to stop crashing. soon be offering the same service and it will and is accessible via dial-up. AT&T will \$4152. The service is located in St. Louis yes, there's a one-time establishment for of Each screen of information costs 9.2 cents an electronic directory service called times "not counting brief 2 am to 3 am

Too paranoid to speak its name? Too risky to mail? Then FAX III

DEFENDING HACKING

(continued from page 35)

public domain game. with other computer users or download a only crime was wanting to communicate a bulletin board system that happened to to innocent, unsuspecting people whose knowledge of. This can and has happened file to my bulletin board that I had no reason, or someone uploaded some soft of be under surveillance for some random hacking is? Yes, Instead of being beloved computer because one day I called can kick my door in and take away my shitless over the fact that the government emergency phone systems, etc., I'm scared transmissions and shutting hightened by tall tales of hackers invading have little or no understanding of what your privacy and taking over satellite UMOD.

calling for a most wholesome and legămate reason. You don't think so, huh? under surveillance, even though he was including the personal information of Joe Wall, ignorance is blss. the users on his BBS system, and is put Joe Hacker's exploits, along with the rest of investigation for collaborating in Mr. Cool Computeruser is new implicated in the who have accounts on the system. Joe Computeruser and countless other people stereos, lamps, etc.) are confiscated, computer and all his files (and TV's, scrutiny of the U.S. Government, His viciously maligned and has come under the sysop, Mr. Cool Joe Hacker, did something are now stored in the BBS's user files. The age, address, and phone number (Information that is required to gain access) an account and, as a result, his real name, and logal sum of money for. He applies for spreadshoot package that he paid a large get help on how to use his new Gates of Eliteness BBS" one day hoping to Scanario: Joe Computeruser calls "The

The government needs watching, not hackers, if hackers led the world, there wouldn't be half a million American troops in Saudi Arabia. Hackers don't send your sons and daughters to their deaths. The U.S. government does, While I cannot

totally say "do not fear the hacker", I can say "fear the government".

been, and the way you look at life in integrity, how screwed over you've ever depends on the way the rules of your game is based upon. To use the argument that are defined, the extent of your personal entirely wrong, but stupid. But again, it all houses information of any kind is not only any private agency, company, etc. that gathering enormous amounts of information computer systems of certain agencies of the fundamental foundations our country such a thing as private property. That's one won't go shead and try to get into that system anyway. That's the choice you limit. If a system exists that houses right to be inside the computer systems of include in that argument that you have the about you without your knowing, and to you have the right to be inside the make, the rules of your game. There is that system. But that's not to say that you not have a constitutional right to be inside able to peruse that information then you do information, and you were not meant to be After all is said and done, there is a

Since there will always be hackers, and there will always be those who think they have the right to be inside any system, the ultimate and unwavering responsibility less on the owner of the system. If you don't make it secure enough, although you're not asking for someone to break into it (who would be?), you've got to realize that not everyone out there gives a shit, and by golly, if they want to hack into your system and they can, well then that's just what they're going to do. And that means that you overlooked something that you shouldn't have. That's life. That's the game

If you enjoyed this issue, you may be interested in issues of the past. Move your eyes to the past the right for details.

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HURRY UP

Time is starting to run out. 1991 is sure to contain lots of unpleasant things, but one of the worst will be a price increase for 2600 subscribers. We're not raising the price out of malice or because of some distant dictator. This is not a sneaky attempt to raise money for war bonds or terrorist activity. Simply put, we're increasing our price because our costs have gone up: postage, printing, and so on. The same old story. By renewing your subscription now, you can still take advantage of the old prices. Because next issue just won't be the same.



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