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a guide to VMS

by Lex Luthor and The Legion of Doom/Hackers

he VAX is made by DEC (Digital Equipment Corp) and can run a variety of operating systems. In this article, I will talk about the VMS (Virtual Memory operating System).

Entrance

When you first connect with a VAX you type either a return, a ctrl-c, or a ctrl-y. It will then respond with something similar to: LOD RECURSIVE SYSTEMS INC. VMS V4.0

Username:

Password:

Zh

The most frequent way of gaining access to a computer system is by using a 'default' login/password. In this example you may try LOD as the username and RECURSIVE as the password or a combination of words in the opening banner (if there is one) which may allow you access, otherwise you will have to try the DEFAULT METHOD of entry. The version listed above (V4.0) is the latest version to my knowledge of VMS. The more widely used version that I have seen is V3.7.

When DEC sells a VAX/VMS, the system comes equipped with 4 accounts which are:

DEFAULT—This serves as a template in creating user records in the UAF (User Authorization File). A new user record is assigned the values of the DEFAULT record except where the system manager changes those values. The DEFAULT ecord can be modified but cannot be deleted from the UAF.

.YSTEM—Provides a means for the system manager to log in with full invileges. The SYSTEM record can be modified but cannot be deleted from the JAF.

FIELD—Permits DIGITAL field service personnel to check out a new system. The FIELD record can be deleted once the system is installed.

SYSTEST—Provides an appropriate environment for running the User Environment Test Package (UETP). The SYSTEST record can be deleted once the system is installed.

Usually the SYSTEM MANAGER adds, deletes, and modifies these records which are in the UAF when the system arrives, thus eliminating the default passwords, but this is not true in all cases.

The 'default' passwords that I have found to work are:

Username:	Password:
SYSTEM	MANAGER or OPERATOR
FIELD	SERVICE or TEST
DEFAULT	USER or DEFAULT
SYSTEST	UETP or SYSTEST

Other typical VMS accounts are:

VAX	VAX	VMS	VMS
DCL	DCL	DEMO	DEMO
TEST	TEST	HELP	HELP
NEWS	NEWS	GUEST	GUEST
GAMES	GAMES	DECNET	DECNET

Or a combination of the various usernames and passwords. If none of these get you in, then you should move on to the next system unless you have a way to get usernames/passwords, like from trashing, stealing passwords directly, or by some other means.

You will know that you are in by receiving the prompt of a dollar sign '\$'. You will be popped into the default directory which is dependent on what account you are logged in as. If you get in as the system manager, you have full access. If you get in on the field or systest accounts you may or may not have full access but you will have the privileges to give yourself full access. To give privileges to yourself: \$ SET PROCESS / PRIVS=ALL

Once you have full privs, you can access any directory and any file, and also in the AUTHORIZE program which will be explained.

The VMS system has full help files available by typing HELP. You can use the wildcard character of ** to list out info on every command: \$ HELP *.

When you first logon, it may be to your advantage to get a list of all users currently logged onto the system if there are any at all. You can do this by: \$ SHOW USERS. Then you should get something like this: VAX/VMS Interactive Users - Total = 4 01-MAY-1985 11:37:21.73

OPA0:	DEMO	004C004C
TTD2:	LAWRENCL	6059004 A
TXB1:	FIELD	608D004 E
TXB3:	TWYLYSYS	01190057

It is highly recommended that if you are logged on in the day and there are people logged in, especially the system manager or the account you are logged on as, logout and call back later. I have found that no matter what system you are on, the best way to remain undetected is to call when no one is on the system. You do not want to call too late since the system keeps a record of when each user logs in and out.

To communicate with other users or other hackers that you are on the system with, use the PHONES Utility: \$ PHONES Username. If the system has DECnet, you can see what available nodes there are by: \$ SHOW NETWORK. If you have mail the system will tell you so after logging in, simply type: \$ MAIL. This will invoke the Personal Mail Utility; you can use help from there.

There are a lot of commands and many are not too useful (to the hacker anyway), so I will not go into detail. One thing about VMS, there is plenty of on-line help available which will enable you to learn the operating system fairly well.

Directories

To see what you have in your directory type: \$ DIR. To get a list of directories on the system type: \$ DIR [*.*].

When a VAX/VMS is first installed, it comes with nine directories which are not listed when you execute the DIR [*.*] command. [SYSLIB]—various macro and object libraries; [SYSMSG]—system message files; [SYSMGR]—files used in managing the operating system; [SYSHLP]—text files and help libraries for the HELP utility; [SYSERR]—directory for the error log file (ERRLOG.SYS); [SYSTEST]—files used in testing the functions of the operating system; [SYSMAINT]—system diagnostic programs; [SYSUPD]—files used in applying system updates; [SYSUPD EXAMPLES]—sample driver programs, user-written system services, and other source programs; [SYSEXE]—the executable images of most of the functions of the operating system.

Inside these directories are files with the following file-types:

File-type	Description:	Command:
.txt	Ascii text file	TYPE file-name
.hlp	System Help file	TYPE file-name
.dat	Data file	TYPE file-name
.msg	Message file	TYPE file-name
.doc	Documentation	TYPE file-name
.log	Log file	TYPE file-name
.ert	Error msg file	TYPE file-name
.seq	Sequential file	TYPE file-name
.sys	System file	FILE-NAME
.exe	Executable file	FILE-NAME
.com	Command file	COMMAND NAME
.bas	Basic file	RUN file-name

There are others but you won't see them as much as the above. You can change directories either by using: \$ CHANGE [DIR.NAM] or \$ SET DEFAULT [DIR.NAM].

You can now list and execute the files in this directory without first typing the directory name followed by the file name as long as you have sufficient access. If you don't have sufficient access you can still view files within directories that you cannot default to by: **\$** TYPE [LOD.DIR]LOD.MAI;1. This will list the contents of the file LOD.MAI;1 in the directory of [LOD.DIR].

The use of wildcards is very helpful when you desire to view all the mail or something on a system. To list out all the users mail if you have access type: \$ TYPE[*.*]*.MAI;*. As you may notice mail files have the extension of MAI at the end. The ;1 or ;2 etc. are used to number files with the same name. (This is the first of an ongoing series on the VMS operating system. Be sure to bok in this entry a file of the entry of the ent

look in future issues of 2600 for more in this series. If you want to see an article about a particular computer or operating system, let us know.)

The Infinity Transmitter—An Old Bug That Had Its Time

by Howard

There is always a great hush when the term infinity transmitter is mentioned, as if it were some amazing secret device, but it can be simply explained. The infinity transmitter or harmonica bug is a device installed within a target's phone. This device allows a person to call the phone and listen in on him while he is quite unaware. This device has a few problems, the biggest of which is that the target's phone must be connected to either a Crossbar or Step by Step switch. The other drawback is that the bug must be installed in the target's phone. This means one must enter the house, place the bug in the phone, and rewire it as required. This bug could also be detected if the target were to attempt to use his phone while you were monitoring his activities. Since you are on his phone line listening to him, he might think it strange that his phone was being used, especially if he has any technical background. Let's see how to use the bug once it is installed.

Once installed all the observer has to do is call the target's phone number. After the observer dials the last digit, he sends a specific tone down the phone line which causes the bug to answer the phone before it rings. The frequency of the tone is user selectable and set during the construction process. The exact frequency of the tone is quite unimportant.

This type of bug can be used from anywhere there is a phone.

Reaching Out On Your Own

by Forest Ranger

Verification is a very touchy subject. The telephone company wants to keep verification secret from anyone beyond telco employees. But as phone phreaks should know that is quite impossible. There are two types of operators that do verifications. "9" (TSPS) for local verifications and IO (INWARD) operators for verifications beyond your NPA. They use their operator console, but other people use blue boxes.

KP:NPA+0+XX+NPA+XXX+XXXX:ST

The first NPA (area code) is yours and the 0 will get you on your TSPS operator lines. The next XX part is an area identifier. They are 00, 11, 22, 33, 44, 55, 66, 77, 88, 99. There are ten possible choices depending on which area you are in. For example, blue box verification for Michigan would be KP:313+0+66+NPA+XXX+XXXX:ST. The second NPA is the NPA of the number you are going to verify. The XXX+XXXX part is the rest of the number you are going to verify. The potential distance is infinite hence the name "infinity transmitter." Ending the audio visit with the target is just as easy as starting it. A different frequency tone is sent down the line telling the bug to hang up. Overall, a very simple concept.

The reason this bug works on Step by Step and Crossbar switches is because in these systems the audio and ring generator are connected to the phone called before it is answered. So it is possible for the bug to answer the phone before the ring capacitor is fully charged by the ring generator. ESS and DMS switches do not connect the audio to the called phone line until after the phone is answered, making the infinity transmitter useless. In the case where the user does not apply the pick-up tone immediately, the phone would ring, then stop suddenly. Therefore some skill is required to avoid tipping the target off to the fact that he is being watched.

Construction of this device should be relatively easy for someone with a little experience in the electronics world. The bug would be isolated from the phone by using two nonpolarized capacitors of l uf or better. It would mainly consist of two frequency detectors. One would connect the audio from the mouth piece to the phone line and answer the phone when the pick-up tone is detected. The other would disconnect the audio from the mouth piece from the phone line and hang up the phone when the hang-up tone appears.

Once you have routed your verification you will receive a series of clicks (tandems stacking), then you will hear a beep and you will be on the line. You won't understand what anyone is saying because everything will be scrambled. The verification will last about thirty seconds. Then you will be beeped out and finally disconnected.

Federal laws regarding line listening have become much stronger—especially after 1974 when a subcommittee of the House of Representatives held a public hearing called "Telephone Monitoring Practices by Federal Agencies". At this hearing it was discovered that Bell had listened in to lines of their employees and had the power to listen in on anyone. This shocked many people and made federal laws concerning such activity much stronger. My point is don't abuse this verification, because all you need is a simple descrambler from Radio Shack to descramble the conversation on the line.

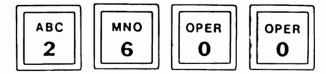
PURSUIT FOR PEOPLE

On August 7, GTE Telenet announced a new service which, if handled properly, will usher in a whole new phase of computer communications.

The service is called PC Pursuit and it enables people to connect their computers to other computers for \$25 a month (plus a start-up fee of \$25). In other words, a hobbyist in New York can connect his computer to a bulletin board in California and not have to pay for a long distance call. The "computer conversation" goes through GTE Telenet, a packet-switching network for computers, previously used exclusively by large corporations.

"To access the service," GTE's press release explains, "a user calls his PC Pursuit access number and is prompted to enter his home phone number and make a request for a destination phone number in a distant city. If the user's telephone number is not authorized, the phone call is terminated and a record of the call is generated. If the number is authorized, the subscriber is called back and automatically connected to the desired telephone number in the distant city, which could be a specific database or remote PC user. GTE Telenet is able to maintain full accounting of the origin and destination of all calls. Each user session can last a full hour, and users may access the service as many times a month as they wish."

PC Pursuit represents the first time a major corporation has attempted to win over computer hackers rather than intimidate them. J. David Hann, president of GTE Telenet, says, "We (continued on page 2-64)



Phone-in Registration For College

Combined News Sources

A \$77,600 computer system that allows students to sign up for courses and alter their schedules using touch-tone telephones will be tested by 300 Union County College (New Jersey) students this fall and up to 7,000 students are expected to be using the procedure by next spring.

"When the student dials in each course will have a five-digit code number," John Faral, the college's dean of computer services said. "The student will be prompted by a recorded voice fo. his identification, so students will have access when they are admitted, a password that only he will know [!], and then he will be led by the voice prompt through the procedure."

The system, purchased from Information Associates of Rochester and similar to those now being used by airlines for flight reservations, will inform students if their chosen courses are full and whether similar ones are available. It will also have the potential to provide many other services for students in the future, such as helping determine the status of their financial aid requests or the status of their admission application.

Trouble With 800 "Word Numbers" The New York Times

When Hindalene Rosner saw "1-800-LIVE-AID" flash on her television screen in the early hours of the worldwide benefit concert, she had a feeling that things would get busy.

It should be explained that Mrs. Rosner is vice president of the Life Aid Corporation. And her company's nationwide tollree telephone number is 1-800-LIFE-AID.

"Every two seconds," Mrs. Rosner said, calls were coming into headquarters in Scottsdale, Arizona, from viewers who were moved by the Live Aid concert to pledge money for the starving and homeless people of Africa.

Callers to Life Aid are told very politely that "this is a totally different business" and are given the correct listing-in digits (1-800-548-3243), not letters.

War Game Addict

Associated Press

A 19 year-old computer enthusiast who said he was addicted to a space war game and used stolen credit card numbers to charge playing time was placed on probation and ordered to make restitution after pleading guilty to wire fraud, a Federal official said.

The man, Kenneth Goldin, was placed on three years of probation and fined \$500 by Federal Judge Maryanne Trump Barry.

Hacker Extortionist Caught

2600 News Service H. Alexander

Phineas Phreak, he called himself as he roamed through computer bulletin boards. But he was caught by telco security men, prosecuted under a 1984 Virginia law designed to zap computer trespassing and sentenced to pay \$300 restitution within six months.

The 14-year-old Phineas became one of the first persons to be 'ealt with under the new law after he pleaded "not innocent"-¹ plea frequently used in juvenile proceedings to avoid giving someone a criminal record. The Montgomery County, Md., youth broke into a computer bulletin board service operated by



a Vienna, Va., man and transferred part of what was stored there to his own computer. The victim, Allen Knapp, 40, who runs the Washington Networks BBS out of his home, said his clients pay a \$10 fee for a password and the opportunity to exchange data with others.

Knapp told The Washington Post that on Jan. 5 the youth managed to bypass "my normal security safeguards," transfer files to his own computer, and erase a substantial portion of Knapp's files. "He then called my answering machine, stating what he had done and making certain demands in exchange for the return of the files in his possession," Knapp said. According to Knapp, the youth wanted the access to obtain files that he would then exchange with his friends. K napp said he called the Virginia State Police and the Chesapeake & Potomac Telephone Co. after hearing the message.

Pitcairn Island Now On AT&T Net

New York Daily News

After nearly 200 years of peace and solitude, the residents of Pitcairn Island in the South Pacific are about to enter the 20th century.

AT&T Communications Inc., in its relentless quest to wire the world, says it has decided to provide international longdistance service to this two-square-mile island where 53 descendants of Fletcher Christian and the other mutineers of the HMS Bounty still live.

The AT&T service will allow the islanders to receive and make calls anywhere in the world, instead of just ringing over to Tahiti. But they'll have to learn to talk fast. A three-minute call to or from the U.S. will cost \$11.83 and \$3.36 for each additional minute.

Calling from the U.S. will be tough. Since all the residents must use the island's one telephone, they have already divvied up the time for making and receiving calls from each country. They will be accepting calls from the U.S. at 2 pm, 8:30 pm, and 1:15 am.

Private Sector Update

2600 News Service

Last month, we told you about the raids in New Jersey which involved our official BBS, The Private Sector, as well as the flurry of headline grabbing that ensued. The sysop of The Private Sector is confident that he will have his equipment returned and charges against him dropped. His lawyer, Arthur Miller, who was obtained for the sysop through the American Civil Liberties Union, has not been able to make much progress on the case. Court proceedings have been postponed at the request of the prosecution. To date, the sysop still does not know the evidence against him, nor of any specific crimes he may be charged with. It is expected that the prosecution may try to hold up the equipment and any final actions in this case until the local elections are over.

Since the raids, 2600 has heard of several cases where BBS users have gotten phone calls from federal agents. We have also heard of a few other bulletin boards that have been taken down. If you know of any such cases, please contact our office at 5167512600.

In addition, since the BBS is not currently available, we have made arrangements for uploading of lengthy articles at our office number. They can still be sent by US Mail.

Dear 2000----

Dear 2600:

In response to the individual inquiring about a back pack microwave system (July 1985), it is my understanding that it is primarily a military field communications device with collapsible satellite antenna and not, as you correctly assumed, a consumer item.

Thank you for a much needed, educational alternative to blindly accepting the status-quo propaganda machine. **D.J.**

Dear 2600:

In your May issue, you were talking about silver boxing and mis-named the AUTOVON precedences. Here are the correct names in order from highest to lowest: Flash Override. Flash, Immediate, Priority, Routine (all calls are routine if no precedence b ton is pushed, or if precedence buttons are not installed on t phone).

Dear D.J. and SEVOX:

SEVOX

We always appreciate res; onse from readers who have some expertise to offer. Please do not hesitate to correct us.

Dear 2600: For the reading list: Understanding Telephone Electronics, developed and published by Texas Instruments Learning Center, available through the Radio Shack chain, catalogue number 62-1388, 288 pages, \$3.49. This book is a technical tutorial on the basics of telephone systems. You need a fair amount of electronics knowledge to understand the stuff in here, but nothing you couldn't get from the other "Understanding so and so" books that Radio Shack sells. Topics include the innards of both standard and electronic telephones, speech, dialing, and ringing circuits, digital transmission techniques, networks, modems, and more. In short, this is a goldmine of technical information about telephone communications, and (something rather out of

character for Radio Shack) is even reasonably priced. This is from the Understanding Telephone Electronics book. According to this book, 2600's opening words about how Alexander Graham Bell answered his phone (Jan. 84 issue) may have been inaccurate, and I quote:

"Early telephone circuits were point-to-point (not switched), and the caller gained the attention of the party at the other end by picking up the transmitter and shouting 'Hello' or 'Ahoy'. This was not very satisfactory, and schemes based on a mechanical signaling arrangement were soon invented. The one in common use today, called the 'polarized ringer', or bell, was patented in 1878 by Thomas A. Watson (Mr. Bell's assistant)."

So it seems that "Ahoy" was not how A.G.B. answered his phone, but more likely how he induced someone else to answer the phone. That makes more sense, since "Ahoy" was usually used at sea to raise the attention of someone else out thereon the foamy brine. Imagine those days of early telephones, where you might walk by that new contraption and hear a dim voice inside velling "Ahoy".

Dear 2600:

Talbot

A while back you were asked if REMOBS really existed. I can tell you for sure that REmote OBServation numbers do, in fact, exist. The hardware is manufactured by different

companies. One of which is called Teradyne, which makes a system called 4-tel.

These systems are working when an exchange is set up for it in the Central Office. They are used for testing and are perfectly legal.

The equipment was built so that you enter a code then a number. It will listen to a number for a limited time and then it sequences to the next number and then the next. But it ___y takes a few seconds to modify the equipment, so it doesn't step to another number.

As far as I know the going price is \$1,500 to get a telco employee to do the modifications. A guy I know was approached by a phone company employee who wanted to get some money and he offered to set up the system and provide a number and code that could be dialed up from anywhere. **Dear 2600:**

I've been thinking of starting my own bulletin board. But I'm not looking forward to the possibility that some jackass will leave a credit card number or other nasty information on my board and that some even bigger jackass will see said message before I can delete it and accuse me of conspiring somehow to defraud or steal or build explosives or whatever else they happen to be afraid of will happen at that moment. The recent raids in New Jersey indicate that even a conscientious sysop (as the fellow who was running the Private Sector claims to be) can get screwed over by computerphobic police and Federal agents. What preemptive protections are available for a bulletin board operator who plans on staying within the confines of the law and yet does not want to stain her or his board with warnings and continually censor the flow of messages? Freedom of the press is a marvelous concept, and apparently allows folks like USA Today to stain every available streetcorner with their one-legged vending machines. What would one have to do to become a "press"? You don't have to be made out of paper, since radio and television reporters qualify. Is there a union I can join? A professional society? Maybe we should start one? Can you recommend any place where further information on such would be available?

Dear W.U.:

W.U. Friend

You ask many intriguing questions, and we believe that we could devote an entire issue to answering them. In fact, we spent a great deal of the August issue of 2600 discussing the very things that you brought up. Many of your questions could be answered by allowing yourself to get busted and letting Warren Burger and the rest of the Supreme Court decide. This may be the easiest way because there are few laws, guidelines, or precedents. Right now, we do not know of any "unions," but there hundreds of computer user groups that are actively discussing these problems, and we also foresee groups forming to specifically address the problem. Especially since those computerphobes you were referring to are trying to get legislation passed to limit BBS's in this country. You must remember that this is a very popular issue, and it will come into play in various elections this fall, including those of the prosecutors who are pressing charges against the Private Sector's sysop.

Lex Luthor and LDD/H updated Telenet Directory REVISION #2. Last Updated: 08/20/85

	* SYSNAME/OWNER/RESPONSE/COMMENTS/ETC. *			SYSNAME/OWNER/RESPONSE/COMMENTS/ET
20120 ! VM/370 20125 !	NJIT Electronic Information Exchange(EIE8) NDD EVETTMENT (1997)	1212224	Port Bel.	Blobal Electronic Mail Service (8) Sheerson/Lebean - Amer, Exp. Infc
0130 ! TDPS-10	' NDC - SYSTEM:	121322	·	Interactive System 3
	' Running CANDE Operating System	21323	UNIX	Interactive System 3 Interactive System 3
	! Primenet mwh ! Primenet mwh	121330 .		L.E.D.
	Primenet USCG.B	121335	MICRO/600	Marketron Research And Sales
0155 \$' 19.3.8	Primenet USCS.B	'21341 \$		
0159 19.2.3a	<pre>' Primenet TBN31 ' Primenet SYS001</pre>			BDC/DRBIT Database (Using "ACF2" 8
	"RDS 46 USER#"	21348 8		USC - ECL Port Selector XCC-West System X2
20173 ! VM - TED	1	21372		XCC-West System X3
	A at Service Center Inkers Trust Customer Service	121373	• •	XCC-West System X1
20188	' Dunn & Bradstreet Systems	121385	CDC & SPERRY	
20189 · VN/370	Prushare	21388	19.3.2	Primenet MSCOST
01162 !	!	1213105	19.4.2	Primenet NSCOST Primenet ND.WOP Dialog
	' "User Number help-phone 313-356-1574"	213170		: Dialog ¹ California Tech. Physics Vax
20236 81	"Network sign-on failed: sign-on comm	1213236	1	Dialog
20243 4! DG A08/VS	; ! TCAM Enter system ID;			
0299 1 TDP6-20	' The Information Service	121442	PRIME	Narathon
202126	<pre>' <connects but="" no="" response=""></connects></pre>	121471	FB.3.3	UCCEL FASBAC
202131	! USER#	121472	IDM TSO	UCC (Using "ACF2" Security Packag
	' TRI-SMP ' TRI-SMP		1 UNIVAC 1100	· UCC
	TRI-SMP	121531 \$	VAX/VNS	VAX VOS
	Washington Office Of Finance		DG ADS/VS	
202202 ! 202214 ! 19.3.5	' Compuserve ' Prisenet spa	121535 + 121540	IBN TSO	! INS America ! VU/TEXT
		121565		Newsnet
20321 *' Port Sel.	"Enter Class"	121566	1 1	Newsnet
20322 ! VN/370 20328 ! VN/370	! !	121567 \$	1040	"Command unrecognized" Primenet ISD
20331 ! DG ADS	Xerox			· ······
20340 ' IBM	"Command unrecognized"	121653	Burroughs !	•B7700 cande 3320 you are thet1
20358 \$ ' 20364 \$ '	! ! <connect disconnect=""></connect>			Primenet TRWIAE
20366 '	! "Login Please:"		CYBER S	U of Illinois
		21726	UNIX !	U of I Computing Services
20420 1	: Stanford ! University of Alberta		DG ADS	
20447	UTCS Datapac	130120	I IBN I	National Library of Medicine
20459 ! 20441 ! CYBER 20472 ' S-18.4.1	' Bateway: Unconfigured device ' Evbershere LTD.	130121 \$ 130123 \$		NASA Recon
20472 5-18.4.1	Primenet ISC	130124		Source System 10
20473 !RSTS V7.2.4	! Novetron	130126	PRIME !	DNA ONLINE
20474 ! 19.2.3 .0481 !	' Primenet PSICAL ! Bateway: Unconfigured device	130128		Source System 13
20485 19.1.5	Primenet PBICAL	130136	1 0414 4.2	
204105 !	! Bateway: Destination not obtainable	130138	1	Source System 11
204112 ! - 204171 !RSTS V7.2.4	' Bateway: Unconfigured device	130145		Beneral Electric
204198 ! 19.2.5		130149		9 Source System 12 9 Source System 15
	Primenet PRECL1	130149	· ·	Source System 14
204197 ! 18.3.6.0	' Primenet SYS91	130155		! Newsnet ! <connects but="" no="" response=""></connects>
20620 '	Baeing	130158	PRIME	CDA online
20638 . DG AD8/VS				SCI Machines
20640 \$! 19.3.5.1 20652 5 19.2		130320	1 0004 883 1	Computer Sharing Services
		130323		
	! (Connects but no response) ! "Enter CICS or Milten"		IRSTS V7.0.7	C. R. C.
21216 !	DEB SYSTEMS	130330	RSTS V7.0.7	Computer Sharing Bervices
21221 ! 19.2.7	! Primenet SYSA	130349	1 1	Computer Sharing Services
21224 ! 19.3.7.R4	! Primenet SYSO ! Landart Systems Inc.			Network Bession (17900 using Cande
21223 19.2.7		130368 13031480		Computer Sharing Bervices
21243	' Citicash Hanager (C/C/H)			
	· C/C/N		1 HP-3000	
	! Citibank ! Group Financial Systems	130522	HP-3000	VU/TEXT Please Sign On
21252 \$! 19.3.3	! Primenet SYSA			
	1 C/C/N 1 C/C/N	131230		"Service ID="
		131231	10PS-10	C.I.C. Timesharing C.I.C. Timesharing
21266	!	131234	•	"Your entry is incorrect please tr
	1 C/C/N	131236 131240 \$! Port Sel. '	"Enter Class"
21267 ! 05-17	1 C/C/H	:31240 9	-	< <bame 31224="" as="">></bame>
21267 ! 05-17 21268 ! 10-49	! C/C/N ! Using the "Top Secret" Security Package	131241	· ·	
21267 ! 05-17 21269 ! 10-49 21270 ! TSD - VM 21272 !	! Using the "Top Secret" Security Package !	131241 131242 \$	1 RSTS V8.07 1	Travenol SYSA
21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VM 21272 ! 21272 !	! Using the "Top Secret" Security Package ? ! Bankers Trust Customer Service	131241 131242 \$ 131243 \$! RSTS V8.07 ! ! RSTS V8.07 !	Travenol SYSA Travenol SYSA
21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VH 21272 ! 21282 ! 21282 ! 21286 !! 21287 ! 18-330	! Using the "Top Becret" Security Package ! ! Bankers Trust Customer Service ! BTBHARE ! C/C/M	131241 131242 \$ 131243 \$! RSTS V8.07 ! ! RSTS V8.07 ! ! RSTS V8.07 !	Travenol SYSA Travenol SYSA Tràvenol SYSA
21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VH 21272 ! 21284 ! 21286 ! 21286 ! 21289 ! 18-330 21288 ! DEC-20	! Using the "Top Secret" Security Package ! ! Bankers Trust Customer Service ! BTSHARE ! C/C/M ! American Express Corporate Info Systems	!31241 !31242 \$!31243 \$!31244 \$!31246 \$!31246 \$! RSTS V8.07 ! ! RSTS V8.07 ! ! RSTS V8.07 ! ! 19.3.7	: Travenol 898A : Travenol 898A : Travenol 898A : "Request in violation of system se : Priment 898A
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21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VH 21272 ! 21286 ! 21286 ! 21287 ! 18-330 21289 ! DEC-20 21289 !RSTS V7.0.8 212112 ! VH/370 212124 !	! Using the "Top Secret" Security Package ! ! Bankers Trust Customer Service ! BTSHARE ! C/C/M ! American Express Corporate Info Systems	!31241 !31242 \$!31243 \$!31244 \$!31246 \$!31246 \$! RSTS V8.07 ! ! RSTS V8.07 ! ! RSTS V8.07 ! ! 19.3.7 !	: Travenol 898A : Travenol 898A : Travenol 898A : "Request in violation of system se : Priment 898A
21247 ! 05-17 21248 ! 10-49 21270 ! TSD - VH 21272 ! 21282 ! 21284 ! 21297 ! 18-330 21289 ! DEC-20 21289 ! PSTS V7.08 21212 ! VH/370 2121248 !	Using the "Top Secret" Security Package Pankers Trust Customer Service PTSHARE C/C/M American Express Corporate Info Systems IFI CITI P	31241 31243 • 31243 • 31244 • 31244 • 31247 • 31247 • 31250 31259 31255	RSTS V8.07 RSTS V8.07 RSTS V8.07 1 19.3.7 1 19.3.7 1 19.3.7	Travenol BYSA Travenol BYSA Travenol SYSA "Request in violation of system so Primenet SYSA American Hospital Supplies Corp. American Hospital Supplies Corp. Official Airlines Suide (DAS)
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21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VH 21272 ! 21287 ! 18-330 21287 ! 18-330 21288 ! DEC-20 21289 ! DEC-20 21289 ! RSTS V7.0.9 212121 ! VH/370 212133 ! VH/370 212133 ! VH/370 212133 ! 19.4.0	Using the "Top Secret" Security Package Pankers Trust Customer Service PTSHARE C/C/M American Express Corporate Info Systems IFI CITI P	131241 131242 9 131243 9 131244 9 131244 9 131244 9 131247 9 131247 9 131249 131250 131259 131259 131245 1312143	RSTS V8.07 RSTS V8.07 RSTS V8.07 19.3.7 IDM TSC	 Travenol BYSA Travenol BYSA Travenol SYSA "Request in violation of system set Primers BYSA American Hospital Supplies Corp. American Hospital Supplies Corp. Official Airlines Buide (DAB) TIME INC. Chicago Datacenter "PORT = \$X25Y00 \$VC01 USER ID?"
21267 ! 05-17 21268 ! 10-49 21270 ! TSD - VH 21272 ! 21282 21284 ! 18-330 21289 ! BCC-20 21289 ! SEC-20 21212 ! VH/370 212133 ! VH/370 212135 ! 19.4.0 212149 ! ! 212141 ! !	I Using the "Top Secret" Security Package Pankers Trust Customer Service BTSHARE C/C/N American Express Corporate Info Systems IFI CITI Tobass New York System Primenet XNY Primenet XNY Primenet XNY	!31241 !31242 !31243 !31244 !31244 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !312120 !312120 !312120 !3121700 !3121370	RSTS V8.07 RSTS V8.07 19.3.7 IBM TSD VAX/VMS	<pre>Travenol BYSA Travenol BYSA Travenol SYSA "Request in violation of system so Priment SYSA American Hospital Supplies Corp. American Hospital Supplies Corp. Official Airlines Guide (DAG) TIME INC. Chicago Datacenter "PORT = \$X25Y00 &VC01 USER ID?"</pre>
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21267 : 05-17 21268 : 10-49 21270 : TSD - VH 21272 : 21282 21282 : 21282 21286 : DEC-20 21289 : DEC-20 21212 : VH/370 212131 : VH/370 212132 : VH/370 212133 : VH/370 212134 : VH/370 212135 : VH/VHS 212142 : 212144 212147 : 212147 212147 : 212147 212152 : VAX/VHS 212152 : VAX/VHS 212152 : VAX/VHS 212152 : VAX/VHS 212154 : 19.4.0 212158 <td< td=""><td><pre>! Using the "Top Secret" Security Package ! Bankers Trust Customer Service ! BTSHARE ! C/C/N ! American Express Corporate Info Systems ! IFI CITI ! Tobass New York System ! Primenet XNY ! Primenet XNY ! Primenet XNY ! Telemail ! Telemail ! Telemail ! Telemail ! G/C/N ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY</pre></td><td>!31241 !31242 !31243 !31244 !31245 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31210 !312163 !312163 !312163 !312235 !312235 !312237 !312237 !312237 !312237 !312237 !312237 !31245 !312370 !31340 !31341 !31311</td><td>RETE V8.07 RETE V8.07 RETE V8.07 19.3.7 IBM TSD VAX/VMS DEC-20</td><td>Travenol BYSA Travenol BYSA Travenol BYSA "Request in violation of system se Priment BYSA American Hospital Supplies Corp. Official Airlines Buide (DAB) TIME INC. Chicago Datacenter "PORT = \$X25Y00 @VCO1 USER ID?" BKVAX2 "PORT = \$X25Y00 @VCO1 USER ID?" "PORT = \$X25Y00 @VCO1 USER ID?"</td></td<>	<pre>! Using the "Top Secret" Security Package ! Bankers Trust Customer Service ! BTSHARE ! C/C/N ! American Express Corporate Info Systems ! IFI CITI ! Tobass New York System ! Primenet XNY ! Primenet XNY ! Primenet XNY ! Telemail ! Telemail ! Telemail ! Telemail ! G/C/N ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY ! Primenet SAL.23.PNY</pre>	!31241 !31242 !31243 !31244 !31245 !31247 !31247 !31247 !31247 !31247 !31247 !31247 !31210 !312163 !312163 !312163 !312235 !312235 !312237 !312237 !312237 !312237 !312237 !312237 !31245 !312370 !31340 !31341 !31311	RETE V8.07 RETE V8.07 RETE V8.07 19.3.7 IBM TSD VAX/VMS DEC-20	Travenol BYSA Travenol BYSA Travenol BYSA "Request in violation of system se Priment BYSA American Hospital Supplies Corp. Official Airlines Buide (DAB) TIME INC. Chicago Datacenter "PORT = \$X25Y00 @VCO1 USER ID?" BKVAX2 "PORT = \$X25Y00 @VCO1 USER ID?" "PORT = \$X25Y00 @VCO1 USER ID?"
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		updated Telenet Directory REVIBION 02, Last L Sysname/Dunner/RESPOnse/Comments/ETC.!	ADDRESSIDS/COMP TYPE!	SYSNAME/DUNER/RESPONSE/COMMENTS/ETC. !
40431 0!			1617230 ! VM/370 !	
	DE ADS/VE		1417239 PRIME	Faxon Information Services
40460 1	RETE VE.O		1617256 1	NOH Teaching Supervisor Primenet HENCO2
	HP-3000		1417249 1 19.4.1.CB	Primenet CS850
41321 8!		(type TW88) DFH READY		Pricenst BBSP
41520 ! 41521 #!	Port Sel.	Dialog	1617343 1	Shawmut Bank Of Boston Sylvania lighting center
	18M 3033A 1	Stanford Data Center Dialog	1417350 ! 19.2.7F	Primenet pbn39 Primenet DASD
141550 81	9	"Network (BUR) terminal must sign-on"	1617403 PRIME	
141557 \$1		"Network (BUR) terminal must sign-on"	171115 10.3TLNT	Primenet TP SYS STENET
141540 1	1	Primenet HD.NWR Leasametric	!71116 !	
141567 81 141570 1		"Network (BUR) terminal must sign-on" LOBON:		H.E.I. Systems
		Harper Broup Information Network C F & D Port Belector 2 (type help)		Primenet SUC Dresser-Magcobar
		Miller Computing Services (MD.CDN)		HouD. Tenneco Inc. (ACF2) HouD. Tenneco Inc. (ACF2)
141640 1		ND. TST	171355 \$! IBN - VN !	Tenneco Corporate VH Systems (ACF2) Tenneco Corporate VH Systems (ACF2)
41649		DPL Speedball Northern Dynamics	171359 01 DB ADB	
141665 ! 141667 !		Northern Dynamics Edmonton Computer System Hardy Assoc.	171361 19.4.2.10 171363 19.4.2.10	HWC.1
		Primenet AIS		"ERR-Invalid Action Code" "ERR-Invalid Action Code"
		Hewlett Packerd Co.	171383 ! HP-3000	Tenneco HVS/SP System (ACF2)
			1713150 1 19.2	Primenet CCI.1
151250 01		AHSC (American High School CXXX)		Primenet PREVS1
151330 !		Lexis/Nexis Meadnet	171430 \$1 HP-3000	
	19.2.9	Primenet E03 Primenet E03	171455 01 HP-3000	
			171412381 HP-3000 1	
151530 1		: Life Care : Lexis/Nexis	171620 1	UNION CARDIDE USER NUMBER
151423 01	RETE	User Nueber=	171724 19.2.10	Primenet \$2901A
151424 *1 151430 1		! Data General Bank ! New York Institute of Technology	180125 1	WASATCH SECURITY SERVICES TIMESHARE
151445 1		"Enter System Select"	180126 ! VAX/UNIX ! 180143 ! HP-3000 !	BERKELEY WABATCH SYSTEM
		: "SERVICE ID-" : Coopers+Lybrand HIS New York	180144 \$! DB ADS/VS 1 180154 \$! VAX/VMS	
151729 1		Beientific CC	180140 \$! DQ ADB/VS !	
151730 1 151731 1			180165 \$! DB A08/V8 !	
51732	VM/370		190423 ! Port sel. ! 190424 ! Port sel. !	Babcock and Wilcox Computer Center Babcock and Wilcox Computer Center
		Dartmouth Time Sharing		
	HP-2000		101330 ! VM/370 !	
160745 !		"Enter system ID"	181331 ! VM/370 !	Prisenet
	IDH VH	! (Type VM then LOGON)	181352 81 TOP8-20 1	Price Waterhouse Timesharing
160923 81	TOPS-20	P.CIC. 9 Dow Jones	101355 \$! !	Price Waterhouse Timesharing Price Waterhouse System
140943		! (No response) ! (No response)	181313261 VM/370 1813140	IBM Information Network
		" "ID , Password, Bervice ?"	181722 ! !	Radio Shack
				Radio Shack
141234 1		"Please login 08:24:44"		
61236 ! 61237 !		! Coordinated Management Systems ! Westlaw	190433 1	Enter RYPI
161241 1 161246 81		! Coordinated Management Systems ! (Port Selector)	190450 \$1 DG ADS/V8 1 190455 \$1	
161252 \$1 161257 1	PRIME	Westlaw	90995	Telessil
		TBD/1DM9DC/CULLDC/V//INTERACT/M204DEVL		Telenail
161730 01		BTE LAN	191433 1 191438 81 VM/370	
161738 81		! Primenet BDSH ! BDN-TC-TELNET	191441 81 VM/370	
161746 81 161747 1		! Primenet BDSS ! HOST:	91445	"ZANOOO1 com-plete is active" Beneral Foods
161748 1 161749 1		! IRI System 4 ! Primenet DASD		
161750 81	19.2.7E	Primenet BDSP "Melcome to JETNET"	91931 IBM	"Please reenter logon line" "Please reenter logon line"
161763 161767	PRIME	IRI System 1		
161772 1	PRIME	IRI System 2		signifies 'will not accept collect connect, ter id and a password.
141778 161784		! Primenet MD.D ! Marlboro HPSIC Software Engineering	Any addresses respondi	ng with "Rejecting" or "Not Operating."
1417100 .		! AND: Enter System ! Primenet TRND.E	back at another time.	is down at the moment, and you should try All above addresses were working as of
617102 ! 1617115 !		"ENTER i=irving t=test w=interact"	the date of update.	
1617115 1		Faxon Information services	Definitions of abbrevi	ations
1617115 1617119 16171228 1617133	IBM CICS	! Faxon Information services ! Weather Services International (WSI)		
617115 617119 6171220 6171220 617133 6171350 6171350	IDH CICS VH/CHS VH/370	! Faxon Information services ! Weather Bervices International (WBI) ! Arthur D. Little Inc. !	D8 - Data General	ne Bysten (DB)
617115 617119 6171226 617133 6171356	IDH CICS VH/CHS VH/370 Hultics	! Faxon Information services ! Weather Services International (WSI)	DG - Data General ADS - Advanced Operati ACF2 - Access Control	Facility 2, Software Security Package for
1617115 1617119 16171220 1617133 1617133 1617137 1617139 1617139 1617143 1617144	IBM CICS VM/CMS VM/370 Multics VM/370 19.3.4	! Faxon Information services ! Weather Services International (WSI) ! Arthur D. Little Inc. ! ! N.I.T. ! IDC ! Primenet KENNOD	D9 - Data General A03 - Advanced Operati ACF2 - Access Control IBM Mainframes. CICS - Customer Infere	Facility 2, Software Security Package for ation Control System (IBN)
! 617115 ! 617117 ! 617133 ! 617135 ! 617135 ! 617136 ! 617137 ! 617138 ! 617143 ! 617143 ! 617143 ! 617143 ! 617143 ! 617143 ! 617143 ! 617143	IBM CICS VM/CMS VM/370 MULTICS VM/370 19.3.4 19.2.71	<pre>! Faxon Information services ! Weather Bervices International (WSI) ! Arthur D. Little Inc. ! M.I.T. ! IDC ! Primenet KENNOD ! Primenet DASQ</pre>	DG - Data General AOB - Advanced Operati ACF2 - Access Control IBM Mainframes. CICS - Customer Infore TSO - Time Sharing Ope	Facility 2, Software Security Package for ation Control System (IBM) rating system (IBM)
617115 617117 6171226 617133 617135 617136 617137 617138 617143 617143 617143 617145 617146 617152 617150	IBM CICS VM/CMS VM/370 MULTICS VM/370 19.3.4 19.2.71 19.2.7F 19.3.9	<pre>! Faxon Information services ! Weather Services International (WSI) ! Arthur D. Little Inc. ! H.I.T. ! IDC ! Primeenet KENNOD ! Primeenet DASU ! Primeenet SDSW ! Primeenet SSB</pre>	D0 - Data General A08 - Advanced Operati ACF2 - Access Control IBM Mainframes. CIC8 - Customer Infore T90 - Time Sharing Ope T0PS - Total OPerating RTTS - Resource Sharin	Facility 2, Software Security Package for ation Control System (IBN) rating system (IBM) System (DEC) g Time Sharing (DEC)
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617115 617128 6171228 617133 617135 617137 617137 617138 617138 617144 617144 617152 617152 617152 617162	IDH CICB VH/CHB VH/370 MULTICB VH/370 19.3.4 19.2.7F 19.3.9 19.3.8 19.3.8 19.3.7 19.3.8	<pre>! Faxon Information services ! ! Weather Services International (WSI) ! Arthur D. Little Inc. ! ! N.I.T. ! IDC ! Prisenet KENNOD ! Prisenet DASQ ! Prisenet BDSW ! Prisenet SS& ! Prisenet ARLEY</pre>	D0 - Data General A08 - Advanced Operati ACF2 - Access Control IBM Mainframes. CIC8 - Customer Infore T90 - Time Sharing Ope T0PS - Total OPerating RTTS - Resource Sharin	Facility 2, Software Security Package for ation Control System (IDM) rating system (IDM) Bystem (DEC) g Time Sharing (DEC) poration (Makes CYDER Computers) ORS:

SYSTEMATICALLY SPEAKING

Dick Tracy Toys Are Closing In

New York Daily News

The world's smallest pocket cellular phone—7 inches long and just 15 ounces—will be introduced at a Las Vegas telecommunications show in September.

The Walker Pocket Phone will be a tiny version of the cellular car phone. It while not require a base station and can operate anywhere and will retail at about \$3,000.

USA Today

At least three American companies have unveiled desk-top picture phones this year and two more companies plan 1986 releases. Image Data Corp. began delivering Photophone earlier this year. The device attaches to an ordinary phone line in a minute, takes five minutes to learn to operate, and transmits black-and-white still pictures to its mates in five to fifteen seconds. It is priced at \$8,500.

Datapoint Corp's recently announced MINX does the same in color and can also attach to a personal computer. It is priced from \$8,800 to \$11,100.

A full-motion color system from Widcom Inc. goes for \$50,000 for a picture squeezer and \$20,000 per station. Picture squeezing is a process that accounts for the fact that only a small amount of information can be sent down a regular phone line, and a video signal requires 150 times more information than a voice signal.

Communications Week

Validec Inc. has invented a hand-held terminal aimed at the restaurant business that allows orders to be placed without the waiter having to ever leave the customer's table. The Point of Origin System is a local area network of printers, terminals, and computers that can be placed at the bar, kitchen and cash register. It uses radio frequencies to communicate with the host computer which can either be an IBM PC AT or AT&T 6300. In addition, the information display allows the restaurant to keep track of every item ordered and how many tables a waiter served on any given shift. This will allow the restaurant owner to decide which are the unpopular items on the menu and to examine the efficency of the employees.

Directory Assistance By Computer

Advertising Age

Since May, 1984, when the seven regional telephone operating companies imposed a 50¢ charge for interstate directory assistance calls, direct marketers have sought to have that charge rolled back or eliminated, and also to have the phone companies make directory information available on computer tape or directly via computer terminals.

Mountain Bell, based in Denver and serving telephone customers in Idaho, Montana. Wyoming, Utah, Colorado, Arizona, and New Mexico, has taken the biggest step in that direction so far with the creation of a computer system it calls ScanTel. Available for a month, but as yet unpublicized by the company, ScanTel allows those equipped with a computer terminal or personal computer to access the company's entire directory database.

The ScanTel database is separate from that used by directory-assistance operators, although it contains the same listings. It differs from the conventional database, however, in that it can be searched not only by name but by address. Soon to be added is a reverse directory feature, permitting users to find out who belongs to a given telephone number.

Users of the system can access it via telephone from anywhere in the country. A three-tiered pricing scheme has been established that simultaneously charges 50c per minute of use, 25c for each request, and 5c for each response. However, the system can handle requests for multiple addresses, such as all those on a given street. That would be considered a single request at 25c and each name, address, and phone number found would cost 5c.

Pest Control

New York Daily News

If you own less than 100 shares, BellSouth will pay you \$10 to get lost. The company is shooing away small investors who clutter up the books and hold only 14% of the 301.9 million shares. Shareholders who agree will be paid the market price for their stock, plus \$10 to close their account.

Bell Propaganda Films

Suburban Trend

A suburban street served as a movie set last month as New Jersey Bell taped a movie about the consequences of cheating the phone company with computers and other technologies.

The movie, produced for AT&T, is "part of a total deterrent package," said Karen Johnson of New Jersey Bell. Although the full program has not yet been fully developed, Johnson said one of the videotapes will be targeted toward grammar school and high school students. Other groups to be targeted include vocational students, college students, and members of the military.

The program is designed to make viewers aware of the pitfalls of cheating Ma Bell, using computers to cheat systems, using false credit cards and other methods of avoiding payment.

Europe Standardizing Telecoms

The Wall Street Journal

In Spain, the busy signal is three pips a second—in Denmark it's two. Telephone numbers within French cities are seven digits long—in Italy they're almost any length. West German phones run on 60 volts of electricity—elsewhere it's 48.

This list can go on and on; only about 30% of the technical specifications involved in phone systems are common from one country to the next. In telephones, as in much else in Europe, each country has gone its own way. But now the idea of standardizing telecommunications systems is catching on. Officials in national governments and at the Common Market executive commission are pushing it as a way of opening telecommunications markets and cutting phone bills. Big equipment makers are supporting it as a way of expanding their sales abroad.

By the year 2000, telecommunications may grow more than threefold to 7% of the Common Market's gross domestic product, topping autos as the biggest industrial sector. Seven of the world's top 13 telephone switch makers are European. Many political and economic issues cloud the standardization process, because companies stand a lot to gain from these potential markets, and some have a lot to lose.



(continued from page 2-58)

hope that we will be providing a safe, positive outlet for computer hobbyists, giving them inexpensive, virtually unlimited access to hundreds of free databases and bulletin boards. By removing the prohibitive cost from recreational data communications, perhaps PC Pursuit will encourage growth and advancement rather than mischief and abuse among hobbyists."

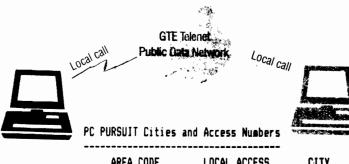
We think it's great. At last we are being encouraged to take advantage of technology without paying ridiculous prices. We look forward to the day when all "long-distance" calls will cost the same as local calls, and free databases be made available to everyone.

Naturally we are a little concerned that all of this data will be going through GTE Telenet, i.e. just about every hacker bulletin board would at some point be called through it. It wouldn't be too difficult to spy on someone's data. from within the system, but we feel that's already the case at present with all communications. As always, we recommend scrambling sensitive or private communications.

It's unlikely that this new system (co-developed by Digital Pathways, Inc. of California) will be victimized by hackers because of the callback feature. Still, if there is a way to defeat this, you can count on it being discovered. Even at this point, though, the most that any one person could cheat the service out of is \$25 a month.

Our main complaint with PC Pursuit is that it isn't available in nearly enough places. Only the largest of cities can use it to call other large cities. A list of dial-ups appears in this issue. When GTE finally gets around to implementing nationwide or even worldwide service, they will have a powerful, trendsetting, people-oriented product.

(More info can be obtained by talking to a human at 8003684215 or a computer at 8008353001.)



	AREA CODE	LOCAL ACCESS	CITY
CITY	SERVED	NUMBER	ACCESS CODE
Atlanta	404	584-2873	Atlanta
Boston	617	423-0547	Boston
Chicago	312	565-3927	Chicago
Dallas	214	651-7094	Dallas
Denver	303	671-5146	Denver
Detroit	313	961-9555	Detroit
Houston	713	227-5742	Houston
Los Angeles	213	624-6062	LA
New York	212	675-3738	New York
Philadelphia	215	574-0613	Philly
San Francisco	415	398-1134	San Fran
Washington D.C.	202	659-2863	Wash DC

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1852hz 1941hz		;	l	Ö		ž		Ď	
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700hz 900hz 1100hz 1300hz 1500hz	1		23		456		7 8 9 10	11 12 KP KP2 ST	
2600hz	(acti	ally	a si	ingle	fre	quenc)	to	ne)	

Other Special and Useful tones

Tone !	Frequency	l On Tise	Off Time
Dial Busy-signal Reorder Ringback (noreal)	350hz and 440hz 620hz and 480hz 480hz and 620hz 440hz and 480hz	1/2 second 1/4 second	1/2 second 1/4 second 4 seconds
Ringback (PBX)	440hz, 480hz	1 seconds	3 seconds
Off hook attention	1400hz, 2060hz 2450hz, 2600hz	0.1 seconds	0.1 seconds
No such number	200hz, 400hz	Continuous fi modulated at	requency a rate of 1hz
Audible rings Standard Synchromonic	440hz, 480hz 20hz, 30hz, 42hz, 54hz	2 seconds NA	4 seconds
Decimonic	ZUNZ, JUNZ,	NA	
Harmonic	40hz, 50hz 16.67hz, 25hz, 33.34hz, 50hz	NA	1
TASI locking	1850hz	5 milisec.	
frequency Out of band signaling	3700hz	NA	
Payphone coins Nickel-1 time Dime-2 times Quarter-5 times	1700hz, 2200hz	66 milisec. 66 milisec. 33 milisec.	66 milisec. 33 milisec.

NA = not available

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