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Introduction

Welcome to Phrack Inc. VI! We have been somewhat delayed in our release due to problems with my home life (see PWN in this issue for details) but here we go! Right now, Metal Shop Private is down, but when I return to real life, it should re-emerge with a new BBS program and hopefully will be better than ever. Now, with the release of Telecomputist Newsletter, we have the capabilities to have Phrack Inc. printed out.

If you feel you'd like to subscribe to something like this, it would be operated in this manner: being one of our positive points, it will be free to an extent. You, the subscriber, will be paying for postage and if necessary, envelopes as well as P.O. Box rental, but none of this should amount to much. If you are interested in getting this, please contact any member of the Metal Shop Family or Phantom Phreaker of The Alliance with your opinions on this. If we get enough support, we'll get this rolling. Later on.

TARAN KING Sysop of Metal Shop Private

This issue of Phrack Inc. includes the following philes:
 Title by Author (amount in K)

- 1 Index by Taran King (1k)
- Pro-Phile on Groups by Knight Lightning (14k)
- 3 The Technical Revolution by Dr. Crash (4k)
- 4 Fun with Lighters by The Leftist (2k)
- 5 Nasty Unix Tricks by Shooting Shark (4k)
- 6 Smoke Bombs by Alpine Kracker (2k)
- 7 Cellular Telephones by High Evolutionary (5k)
- Wide Area Networks by Jester Sluggo (10k)
- 9-13 Phrack World News by Knight Lightning (16,15,15,16,15K)

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Phrack Pro-Phile 3

Featuring: User Groups and Clubs

Written By Knight Lightning and Taran King

On June 10, 1986

Welcome to issue 3 of Phrack Pro-Phile. The information herein was originally supposed to appear as a special issue of PWN, but instead was made this issue's Phrack Pro-Phile. Taran King and I have collected much information about the different clubs and groups of today and yesterday and compiled in the form that you will now see.

Extasyy Elite: The story of Extasyy Elite is a sad one for the group was literally destroyed by its own members. The Poltergeist turned in all of Extasyy after he got busted for carding. This led the authorities to The Mentor who had stolen 30 Apple //es. Mentor's bust almost led to The Protestor, but luckily, The Mentor was able to warn Protestor in time. (See Phrack World News Issue III).

The membership of the club included:

Bit Blitz Crustaceo Mutoid Kleptic Wizard
The Mentor The Poltergeist The Protestor

Cisban Evil Priest

Crustaceo Mutoid later joined the Racketeers, but now he and The Mentor write for a California newsletter called the Underground Informer.

Extasyy hung out on Hack Net BBS and FWSO, a bbs in Colorado. _____

Fargo 4A: This group was started on a conference consisting of Bioc Agent 003, TUC, Big Brother, Quasi-Moto, Video Warhead, and the Wizard of Arpanet. What they did was get several Directory Assistants on the conference, and each person assumed a role of some sort of telco agent. Now they told the DA's that all their calls were going to be re-routed to a different location. They got some of the DA's to believe them, and some of them were almost laid off because of this conference. By the way, Fargo is in North Dakota, that's where the first DA was from.

> It is believed that Wizard of ARPAnet was busted by John Maxfield and that BIOC completely retired from the phreak world. This group was unofficially disbanded, but several of the members are still active.

Five-O: A reasonably new IBM kracking group, which was formally the Imperial Warlords. Currently they are re-kracking software and claiming it to be original by themselves. They are known for placing insulting messages towards certain people inside their re-kracked software.

IBM Syndicate: This group was formed around April 6, 1986. Its charter members included; Dark Creaper (916), Brew Associates (215), Major Havoc (301), and one other whose handle remains unknown to me at the current time. They were a new phreak/hack/pirate group. Unfortunately, this group (like so many others) died

within its first month.

Icub (International Computer Underground Bandits):

This is a hack/phreak group who's main emphasis is on phreaking. It is based in Memphis, Tennessee. It has 10 members in it, and the only semi-active member left is Doc Holiday. Not much else is really known about this group except that it is inactive and there have not been any announced plans to revive it.

LOD/H: Legion Of Doom/Hackers

These two groups are very closely intertwined. They both were formed on Plovernet. The founding member was Lex Luthor. Through the years, there have been LOD/H bulletin boards such as Blottoland, LOD, FOD, etc. Today there is Catch 22 and a new LOD bbs, supposedly being run by King Blotto. The current member list of the group is as follows:

Legion Of Hackers

Blue Archer Gary Seven Kerrang Khan Lex Luthor

Master Of Impact

Silver Spy (Sysop of Catch 22)

The Marauder The Videosmith Legion Of Doom

Phucked Agent 04 Compu-Phreak

LOD/H is known for being one of the oldest and most knowledgeable of all groups. In the past they have written many extensive g-philes about various topics. (Please forgive any mistakes in the member list since this list was provided by Lex Luthor approximately 1 1/2 - 2 months ago).

Metal Communications: A very large group that has written many files throughout its existence. Some of the boards in its menagerie include Speed Demon Elite, Metal AE, Metal Works AE, Metalland I and several others. The membership of Metal Communications includes:

Cobalt 60/Crimson Pirate/Dr. Local/Red Pirate/Shadow Lord/The Angel Of Destiny The Apothecary/The Byte/The Byter/The Dark Wizard/The Duke/The Dutchman The Man In Black/The Prophet/The Pink Panther/The Voice Over/The Radical Rocker The Warlock Lord/White Knight

Red Pirate, Crimson Pirate, and Dr. Local are the group's main ware distributors.

A subsidiary of Metal Communications is the Neon Knights whose membership includes:

Baby Demon/Jolly*Roger/The Blade aka Killer Kurt/The Master of Reality The Metallian/The Outland/Zandar Zan

PAG/PAP: Phreaks Against Geeks/Phreaks Against Phreaks Against Geeks

PAG: This group was formed by TWCB Inc. as a joke on a conference in December, 1985. The charter members were TWCB, Inc. taRfruS, Blue Adept, The Clashmaster and a few others. Later, Catcher in the Rye and the Slovak wanted to join.

In resistance to PAG, Boston Stangler and Micro Man formed PAP. Several others sided with them but were never formal members.

All of this nonsense was really started on the Dartmouth system and was mainly a feud between phreaks in the Boston (617) area until TWCB got involved.

The Administration: This group was sort of in two parts; The Administration

and Team Hackers '86. The membership of these groups include:

Adolph Hitler.....Team Hackers '86

Alpha Centauri

Author Unknown......Team Hackers '86
British Bloke.....Team Hackers '86

Dark Priest

David Lightman (214)......Administration Leader/
Team Hackers '86

Dr. Pepper Hewlett Hackard

Major Havock......Team Hackers '86

Mane Phrame Mark Twain

Phoneline Phantom 1 - *Not* a member of Phoneline Phantoms.

Red Baron

Renegade Rebel

Sasha Kinski.....Team Hackers '86

The President Walter Mitty

The group did disband temporarily for reasons dealing with security, but now is back together. For other news about this group see the current PWN.

The Nihilist Order: This group was really a loosely connected bunch of friends and phreaks and not a true club. It is based in Fremont and Sunnyvale, California. It was started by TRASk and The Highwayman. The membership includes:

BelGarion/Ogre Ogre/The Animator/The Highwayman/TRASk

All of the members of the group have been busted or been involved in busts in the past few months. The Highwayman bit it in the Phoenix Phortress Sting Operation, and the others all got caught on a carding scam. Although BelGarion was later released with no record.

One of the boards in the Nihilist Order's network is the Shattered World Elite, which is sysoped by TRASk. The group is currently inactive.

The P.H.I.R.M.: A somewhat new group that recently has been accused (without proof) of being fed invested.

Not much is really known about this group as they would disclose very little information. Some of the boards that are now P.H.I.R.M operated include Thieve's Underworld, sysoped by Jack The Ripper, World's Grave Elite sysoped by Sir Gamelord, and SATCOM IV.

The P.H.I.R.M. reportedly will be releasing a newsletter.

The membership of the P.H.I.R.M. supposedly includes:

Archangel Blade Runner
Jack The Ripper Sir Gamelord

The Stingray

It is rumored that Blade Runner is the same person as Archangel and/or The Stingray.

TPM (The Punk Mafia): This group when last checked had eight members. The following is a complete listing.

Arthur Dent Creative Chaos
Erik Bloodaxe Gin Fizz
Ninja NYC Peter Gunn

Rudolph Smith (703) The Godfather (703)

The group will be going through a rebirth this summer. Their main goals include burglary, fraud, hacking, and phreaking. Most recently The Godfather retired and Ninja NYC came very close to being busted. See Phrack World News Issue V.

The Racketeers: The new Apple pirating group was assembled by Apple Rebel. The membership now includes:

Apple Rebel/Crustaceo Mutoid/Hot Rod/The Micron/The Warezird

Tribunal Of Knowledge: This group was formed very recently by Blue Buccaneer and High Evolutionary with one purpose in mind: to get together to trade knowledge and information and to discuss this information until all the members had a good working knowledge of it. The final result would be g-philes written by the group about the topic. On the whole it was a good idea.

The complete membership includes:

Blue Buccaneer Chef Boy R Dee
Cyclone II High Evolutionary
Night Stalker Paradox
Professor Pixel Slave Driver
The Inspectre The Seker

The Wild Phreak

2300 Club: Based in Cleveland, Ohio. The 2300 Club is now being compared and treated as miniature mafia by local authorities. This is mainly for crimes including the blowing up of cars. Two of the members were caught for fraudulent use of a credit card and one has been arrested for car theft. Which of the members that refers to, I don't know, but the membership of the 2300 Club included:

> Dr. Gorey Eagle Eyes King Blotto Prince Squid The Formatter

Dr. No Judge Dredd Mr. Modem Spectreman

2600 Club/New 2600 Club: Both groups are no longer in existence. Originally started as a local group of friends in St. Louis, Missouri, it gained members quickly, too quickly, and as the membership grew, the unity and productivity of the group lessened until the group(s) finally broke up. However many of the members of 2600 Club now write (or have in the past) for Phrack Inc. Among them are:

Cheap Shades/Data Line/Dr. Crash/Forest Ranger/Gin Fizz/Jester Sluggo Knight Lightning/Monty Python/Phantom Phreaker/Taran King/The Clashmaster

2600 Club had no relation to 2600 Magazine.

Warelords: There are 13 members in the Warelords and they are based in California, Maryland, Tennessee, Washington D.C., and Wyoming. Billibuster, a member of the group, said that the Warelords are a phreaking and carding group that also writes programs and sells them. He claims that they are not pirates. The group isn't very

Other groups:

Catholics Anonymous: A pirate group

Elite Phreakers and Hackers Club: From World of Cryton

Feds R Us: Joke by King Blotto

High Mountain Hackers

Imperial Warlords: See Five-O

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Inner Circle: The Cracker (Author of "Out of The Inner Circle")

Kaos Inc.

Knights of Shadow: Sir Knight
MPG: Midwestern Pirates Guild

NASA Elite: Captain Kid

Neon Knights: See Metal Communications

Phlash: A relatively new Amiga kracking group.

Phoneline Phantoms: The Colonel, The Duke, The Executioner, and The Sprinter.

Phreak Hack Delinquents: Metro Man and the Reaper (212)

Project Genesis: Sigmund Fraud

RDTF: Red Dawn Text-Files, Saltheart Foamfollower (SE) and Brain Gadget (Ca.)

Shadow Brotherhood

65C02 Elite (612): Wizard of ARPAnet and The Count. BBSes: Irongate, North

Pole, The Guild, and The Graveyard.

The Dange Gang: Maxwell's Demon

Triple Entente

2601 Club: Formed by taRfruS to combat 2600 Club.

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The Techno-Revolution

by

Doctor Crash

Hacking. It is a full time hobby, taking countless hours per week to learn, experiment, and execute the art of penetrating multi-user computers. Why do hackers spend a good portion of their time hacking? Some might say it is scientific curiosity, others that it is for mental stimulation. But the true roots of hacker motives run much deeper than that. In this file I will describe the underlying motives of the aware hackers, make known the connections between Hacking, Phreaking, Carding, and Anarchy, and make known the "techno-revolution" which is laying seeds in the mind of every hacker.

To fully explain the true motives behind hacking, we must first take a quick look into the past. In the 1960's, a group of MIT student built the first modern computer system. This wild, rebellious group of young men were the first to bear the name "hackers". The systems that they developed were intended to be used to solve world problems and to benefit all of mankind.

As we can see, this has not been the case. The computer system has been solely in the hands of big businesses and the government. The wonderful device meant to enrich life has become a weapon which dehumanizes people. To the government and large businesses, people are no more than disk space, and the government doesn't use computers to arrange aid for the poor, but to control nuclear death weapons. The average American can only have access to a small microcomputer which is worth only a fraction of what they pay for it. The businesses keep the true state of the art equipment away from the people behind a steel wall of incredibly high prices and bureaucracy. It is because of this state of affairs that hacking was born.

Hackers realize that the businesses aren't the only ones who are entitled to modern technology. They tap into online systems and use them to their own advantage. Of course, the government doesn't want the monopoly of technology broken, so they have outlawed hacking and arrest anyone who is caught. Even worse than the government is the security departments of businesses and companies. They act as their own "private armies" and their ruthless tactics are overlooked by the government, as it also serves their needs.

Hacking is a major facet of the fight against the computer monopoly. One of the ways hackers accomplish their means has developed into an art in itself: Phone Phreaking. It is essential that every Hacker also be a Phreak, because it is necessary to utilize the technology of the phone company to access computers far from where they live. The phone company is another example of technology abused and kept from people with high prices.

Hackers often find that their existing equipment, due to the monopoly tactics of computer companies, is inefficient for their purposes. Due to the inexorbitantly high prices, it is impossible to legally purchase the necessary equipment. This need has given still another segment of the fight: Credit Carding. Carding is a way of obtaining the necessary goods without paying for them. It is again due to the companies stupidity that Carding is so easy, and shows that the world's businesses are in the hands of those with considerably less technical know-how than we, the hackers.

There is one last method of this war against computer abusers. This is a less subtle, less electronic method, but much more direct and gets the message across. I am speaking of what is called Anarchy. Anarchy as we know it does not refer to the true meaning of the word (no ruling body), but to the process of physically destroying buildings and governmental establishments. This is a very drastic, yet vital part of this "techno-revolution."

Hacking must continue. We must train newcomers to the art of hacking. We must also increase computer Crashing. I know that crashing a computer seems a waste, but when there is no other way to subvert a business, their system must be shut down.

As I stated above, this is only on the motives. If you need a tutorial on how to perform any of the above stated methods, please read a file on it. And whatever you do, continue the fight. Whether you know it or not, if you are a hacker, you are a revolutionary. Don't worry, you're on the right side.

If you have a question or comment about this file or the "technorevolution" just leave mail for me on the Metal Shop AE (314)256-7284, or any other BBS I may happen to be on.

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"How To Have Fun With a Bic <or generic> Lighter"

by The Leftist

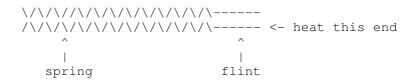
First off, let me say, that I am not responsible for any personal damage done by the use of the information in this file.

Shower of sparks from nowhere:

This trick is done usually with an empty lighter. Disassemble the top, being careful not to loose the flint, and the spring, which are under the striker wheel. Throw away everything else, unless there is still some fluid in the lighter, which can be used for some of the other things in this file. Save the flint and spring.

Ok, now take the spring, and pull on the end a little, and stretch the spring out a little longer than the flint. Next, take the flint, and kind of wrap the end of the spring around it. It should look sort of like fig. A. Next, the fun part. Take the spring, and hold it by the end that doesn't have flint on it, and heat the flint till it glows. Don't worry, the heat won't burn your fingers. Then, throw it flint first at victim, pavement, or whatever.

Fig. A



What to do with leftover lighter casing:

Light one of the striker wheel supports, and lay it upside down in a corner and run like hell! This will blow pretty good. You can also take the casing and wrap it loosely in a paper towel, light the towel, step back, and shoot it with a BB gun. Fun. Experiment, but don't ever puncture the lighter, while you're holding it, that would be foolish.

Any questions or comments? Contact me on the 2400 Baud Exchange 404-925-9657.

The Leftist.

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Unix Nasties

By Shooting Shark

Written on April 3, 1986

Summary: Methods of sabotaging your favorite Unix system.

Preface: I do not advocate utilizing ANY of the methods I put forth in this

file. Unix is a cool operating system, perhaps one of the best systems ever designed in many respects. If you have access to a Unix system, you should LEARN UNIX AND LEARN C, because that is where the

money is in the computer world. However, Unix is a relatively insecure operating system which is easy to fuck up. This file

explains a few ways of doing so.

Crash The System

Unix has no built-in provision for the maximum amount of disk space allowed per user. Thus, one user can grab all the disk space on the system and effectively prevent anyone else from writing to the disk. A simple way of grabbing all the disk space is to create subdirectory after subdirectory until it is no longer possible. Here are a few ways of doing it.

1> Create a file with the following lines:

mkdir subdir
cd subdir
source /u1/mydir/crash

Call it crash. The last line ("source /u1/mydir/crash") should be altered so that it will look for the file in your directory. If your directory is /u3/students/jeff, the last line should say "source /u3/students/jeff/crash". After you write the above file, type:

% source crash

and wait...within a few minutes the program will abort because it won't have any more room on the disk. Neither will anyone else.

2> Here's a more elegant way of doing the same thing. Create this "endless loop" shellscript:

while : ; do
mkdir subdir
cd subdir
done

and then "source" the file. If you are in the "sh" shell (if you are, you will probably have a "\$" prompt) you can type "while:; do" from the \$ prompt. You will then get a > prompt. Type the next three lines and sit back.

- 3> If you'd like to set the process in motion and hang up, and the file is called crash, type:
- % nohup source crash &

and log off. This will start it as a background process, allowing you to log off. However, log off QUICKLY, since if you used the first example for your crash file, it will also eat up background processes like crazy which

will also fuck up the system to some extent. Which brings us to...

Slow Down The System Immensely

There are many ways of doing this, the method being creating a sufficiently large number of background processes. Here's one specific example. Create a file called "slow1" with the following lines:

w &

source slow1

create a file called "slow2" with:

source slow1 &
source slow2

and execute slow2 with

% slow2 or % slow2 &

This will create 25 background processes, each one running 25 background processes. The system will hardly move after you've got each one running.

Messing Up A Directory

Many file-handling commands use "-" options. Create a file with a "-" at the beginning of its name by doing this:

cat > -filename

[now type a few lines, maybe something rude like "ha ha you can't delete this file".] Type a ^D (control-d) to end input. You now have a file called -filename in your directory. It will be VERY difficult to remove this file. If you were to try rm (remove) -filename or mv (rename) -filename, the rm or mv program would interpret -filename as an option, not a file, and would give you an error message telling you that -filename was not a valid option...thus, the file stays there obnoxiously.

Create a couple of hundred files with "-" as the first characters in their names...it will be a royal pain for the person who is blessed with these new files, and they will probably just have to get a new login.

Conclusion

The use of any of these techniques is quite irresponsible, and if anyone did this to my Unix system, I'd be quite pissed. That is why I strongly recommend that you never use these tricks.

So Long, Shooting Shark

"Some people have a bad attitude, and I say, if they want to act tough, beat 'em up!" - Blue Oyster Cult

For more information on UNIX sabotage and cracking, see the following articles:

Ritchie, Dennis M. [he wrote Unix] "On the Security of UNIX." Programmers Manual for UNIX System III Volume II. Supplementary Documents.

Filipski, Alan and Hanko, James. "Making UNIX Secure." BYTE Magazine, April 1986, pp 113-128.

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/=-=-=-\ < Smoke Bomb > >----< < by > > Alpine < < Kracker > \-=-=-=/

Ingredients-

Saltpetre (Potassium Nitrate)

Sugar

Alcohol (100% is best, but plain rubbing alcohol will work)

Gunpowder (or some ground-up rocket engines)

Matches (Get a box of 50 packs -they can be very useful.)

Coffee can Cigarette

Instructions:

Combine the sugar and saltpetre in a 3:1 ratio (Sugar:saltpetre) and heat over a low flame until the mixture has thoroughly melted together. (It will look like sticky white lumps when ready) You need to stir this continually while heating, and remove it from the flame at the very first sign of smoke. I had a batch go off in my face once, and the workroom was filled with smoke for a good half hour. It is easier and safer to work with smaller batches.

Now, dump all of this "smoke powder" into a coffee can, add some match heads, moisten it with a little alcohol, and add gunpowder until all the smoke powder is coated. Now tape a cigarette between the match heads in an unopened book. Imbed the book into the mixture.

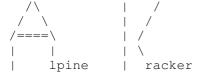
Light the but, and walk casually away to find a nice alibi within 5 minutes.

Notes:

You should be able to find some Saltpeter in a local drug store.

All of the gunpowder, match heads, and alcohol is simply to insure good ignition. You can omit them, but if you have them, \min them in for reliability's sake. For the fuse, you can either use the one listed, or either some canon fuse, or a rocket igniter and an electrical system.

A quarter pound of this stuff is supposed to fill a city block. I'm not sure if that is accurate, but it sure fills a public bathroom nicely.



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Cellular Telephones
[Written By The High Evolutionary]

I assume that most of us know many of the technical aspects of Cellular Phreaking therefore this file is intended for general information as to how these unique devices operate.

Cellular is likely to be successful because it provides dramatic improvements over the historic automobile phones. For years, mobile radio-telephone service was an extremely limited proposition. There were only forty-four radio channels available, and a maximum of about thirty were assigned to any one area. That meant if all thirty channels were occupied-one conversation per channel-and you were the thirty-first mobile phone user who wished to make a call, you would have to wait thirty minutes or more, even in a city the size of New York. As you can imagine, mobile radio-telephone service like that could not become very popular. Even with the limited number of channels, long delays in making calls during busy periods, and often poor quality transmission, there were big waiting lists for mobile service. But with a fully equipped cellular radio-telephone system, it is possible to make 5000 times as many calls simultaneously in the same metropolitan area, opening up the service to anyone that can pay the hefty prices.

That is because cellular radio-telephones systems are technically quite different from traditional mobile telephones. First, the FCC (Federal Communications Commission) has allocated far more channels to cellular, 666 in all. Second, those 666 channels are broadcast from many different locations. In the old mobile telephone systems, there was one powerful radio station with a large antenna that served an entire city. In the new system, a geographical area is honeycombed with many cells, hence the name 'Cellular'. Each cell has its own low-powered radio transmitter and receiver. As a car with a cellular telephone or a person carrying a portable moves from one cell to the next, the call is transferred automatically. You're unlikely to notice when this transfer takes place, even though your phone is suddenly switched to a different radio station and to another channel while you are talking.

Because the cellular signal is low-powered, it doesn't go very far. This permits the same channel you are talking on to be used for calls in other parts of the same metropolitan area without interference. This would mean cellular radio-telephone systems can serve a very large number of customers in an area because there are more channels than before-and the larger number of channels are reused.

Unlike local telephone service, which is provided by a monopoly, there is competition in cellular. Two classes of companies are allowed to offer cellular telephone service in every market. One cellular system can be owned by a telephone company, the other by someone else. The two-company rule was adopted by the FCC so that AT&T, which developed cellular, could not monopolize the whole thing.

Cellular Telephones come in two basic versions, as car phones and portable phones, with a briefcase hybrid. Car phones are by far the most common, because they are much cheaper. But most believe that, ultimately, portables will be the most popular. Washington Post Company president Richard Simmons, whose company is a partner in several cellular systems, even predicts that by the early 1990's "There will be phones roughly the size of a calculators that you carry around in your pocket. They will cost no more than five hundred dollars. They will emancipate people from the necessity of locating a phone to make calls. The bad news is, you will never be able to get away from the phone,

and we'll call it progress."

Car telephones include a small transmitter-receiver unit that is usually mounted in the trunk, an antenna and a control head that includes the handset. In most cellular systems, the telephone touchpad is located on the handset. Many domestic and foreign manufacturers make cellular car phones, but so far only Motorola makes portables, the DYNA T-A-C 8000X and 8000S. Motorola's portables look like a slightly enlarged, somewhat chunky telephone handset, with a stubby antenna at one end.

Portables are less powerful than car units, so they can't be used with some cellular systems. The portable's other limitation is battery life. A portable can listen for calls for about eight hours, but it can only transmit for only thirty minutes. After that time it must be charged for a minimum of an hour.

The following American cities have cellular telephone service or soon will get it:

New York
Los Angeles
Chicago
Philadelphia
Detroit
Boston
San Francisco
Washington
Dallas
Houston
St. Louis
Miami
Portland
Pittsburgh
San Denver
Seattle
Cincinnati
Cincinnati
Ransas City
Buffalo
Buffalo
Phoenix
Dallas
San Jose
Indianapolis
New Orleans
Miami
Portland
Pittsburgh
Cleveland
San Diego
Atlanta
Baltimore
Minneapolis

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Jester Sluggo presents an insight on Wide-Area Networks Part 2

Part 1 contains information on ARPANET and CSNET.

Part 2 contains information on BITNET, MFENET, UUCP and USENET.

It is best if you read both files to better understand each other.

These files will cover general information on wide-area networks, (I.E. ARPANET, CSNET, BITNET, MFENET, UUCP and USENET), but may contain information in relationship with other networks not emphasized in these files. These files are NOT a hacker's tutorial/quide on these systems.

BITNET

BITNET. In 1981, City University of New York (CUNY) surveyed universities on the East Coast of the U.S. and Canada, inquiring whether there was interest in creating and easy-to-use, economical network for interuniversity communication between scholars. The response was positive. Many shared the CUNY belief in the importance of computer-assisted communication between scholars. The first link of the new network, called BITNET, was established between CUNY and Yale University in May 1981.

The network technology chosen for BITNET was determined by the availability of the RSCS software on the IBM computers at the initial sites. [The name BITNET stands for Because It's Time NETwork.] The RSCS software is simple but effective, and most IBM VM-CMS computer systems have it installed for local communications, supporting file transfer and remote job entry services. The standard BITNET links are leased telephone lines running at 9600 bps. Although all the initial nodes were IBM machines in university computer centers, the network is in no way restricted to such systems. Any computer with an RSCS emulator can be connected to BITNET. Emulators are available for DEC VAX-VMS systems, VAX-UNIX systems, and for Control Data Corp. Cyber systems and others. Today, more than one-third of the computers on BITNET are non-IBM systems.

BITNET is a store-and-forward network with files and messages sent from computer to computer across the network. It provides electronic mail, remote job entry, and file transfer services, and supports and interactive message facility and a limited remote logon facility. Most BITNET sites use the same electronic mail procedures and standards as the ARPANET, and as a result of the installation of electronic mail gateway systems at the University of California at Berkley and at the University of Wisconsin-Madison, most BITNET users can communicate electronically with users on CSNET and the ARPANET.

BITNET has expanded extremely rapidly — a clear indication that is providing service that people need and want. The simplicity of the connection to the network — acquiring a 9600-bps leased line to the nearest neighboring computer node and in installing an additional line interface and modem — provides the service at the right price. By the end of 1985 the number of computers connected was expected to exceed 600, at more than 175 institutions of higher education throughout the U.S. BITNET is open without restriction to any college or university. It is not limited to specific academic disciplines, and may be used for any academic purpose. However, use for commercial purposes is prohibited. In special cases, connection of commercial organizations may be sponsored by universities. A particular case is the connection of Boeing Computer Services to BITNET, as part of the NSFnet initiative, to provide remote job entry services to their Cray X-MP/24 to NSF supercomputer grantees who have access to BITNET.

Until recently BITNET had no central management structure, and was coordinated by an executive board consisting of members from the major institutions participating. This worked because most of the computers

connected were managed and operated by professional service organizations in university computer centers. However, the growth in the network made it possible to continue in this ad hoc fashion, and a central support organization was established with support from an IBM grant. The central support organization, called the BITNET network support center (BITNSC), has two parts: A user services organization, the network information center (BITNSC), which provides user support, a name server and a variety of databases, and the development and operations center (BITDOC) to develop and operate the network. A major question facing the members of BITNET is how the funding of this central organization will be continued when the IBM grant expires in 1987.

BITNET, with support from the NSFnet Program, is now examining ways to provide ARPANET-like services to existing BITNET sites. The project, which is similar to the CSNET CYPRESS project, will explore a strategy to provide an optional path to the use of the TCP-IP procedures on existing 9.6-kbps leased lines. The possibility of upgrading these lines to multiple alternate links, providing higher reliability and availability, or to higher speed 56-kbps links is also being studied. The project will offer a higher level of service to BITNET sites choosing this path and also enable a low-cost connection to NSFnet.

MFENET

MFENET. The DOE's magnetic fusion energy research network was established in the mid-1970's to support access to the MFE Cray 1 supercomputer at the Lawrence Livermore National Laboratory. The network uses 56-kbs satellite links, and is designed to provide terminal access to the Cray time-sharing system (CTSS), also developed at the Lawrence Livermore Laboratory. The network currently supports access to Cray 1, Cray X-MP/2, Cray 2, and Cyber 205 supercomputers. The network uses special-purpose networking software developed at Livermore, and, in addition to terminal access, provides file transfer, remote output queuing, and electronic mail, and includes some specialized application procedures supporting interactive graphics terminals and local personal computer (PC)-based editing. Access to the network is in general restricted to DOE-funded researchers. Recently the network has been expanded to include the DOE-funded supercomputer at Florida State University. MFENET is funded by DOE and managed by Livermore.

MFENET has been successful in supporting DOE supercomputer users. However, the specialized nature of the communications protocols is now creating difficulties for researchers who need advanced graphics workstations that use the UNIX BSD 4.2 operating system and the TCP-IP protocols on LAN's. For these and other reasons, DOE is examining how best to migrate MFENET to the TCP-IP, and later to the OSI, protocols.

The combination of the CTSS operating system and the MFENET protocols creates an effective interactive computing environment for researchers using Cray supercomputers. For this reason, two of the new NSF national supercomputer centers -- San Diego (SDSC) and Illinois -- have chosen the CTSS operating system. In SDSC's case, the MFENET protocols have also been chosen to support the SDSC Consortium network. In Illinois case, a project to implement the TCP-IP protocols for the CTSS operating system has been funded by the NSFnet program, and these developments will be shared with SDSC (and with DOE) to provide a migration path for the SDSC Consortium network.

UUCP and USENET

UUCP and USENET. The UUCP network was started in the 1970's to provide electronic mail and file transfer between UNIX systems. The network is a host-based store-and-forward network using dialup telephone circuits and operates by having each member site dialup the next UUCP host computer and send and receive files and electronic mail messages. The network uses addresses based on the physical path established by this sequence of dialups connections. UUCP is open to any UNIX system which chooses to participate. There are "informal" electronic mail gateways between UUCP and ARPANET, BITNET, or CSNET, so that users of any of these networks can exchange electronic mail.

USENET is a UNIX news facility based on the UUCP network that provides a news bulletin board service. Neither UUCP nor USENET has a central management; volunteers maintain and distribute the routing tables for the network. Each member site pays its own costs and agrees to carry traffic. Despite this reliance on mutual cooperation and anarchic management style, the network

operates and provides a useful, if somewhat unreliable, and low-cost service to its members. Over the years the network has grown into a world-wide network with thousands of computers participating.

OTHERS

Other Wide-Area Networks. Of necessity this file of wide-area networks has been incomplete: Other networks of interest include the Space Plasma Analysis Network (SPAN) — a network of DEC VAX computers using 9.6-kbps links and the DECNET protocols for National Aeronautics and Space Administration's researchers; the planned Numerical and Atmospheric Sciences (NAS) network centered at Ames Research Center — a network that is expected to use existing and planned NASA communications links and the TCP-IP protocols; and the planned high-energy physics network — a network based largely on VAX computers and using the standard X.25 network level protocols plus the so called "coloured books" protocols developed in the United Kingdom. Also, many high-energy physicists, at the Stanford Linear Accelerator, at the Lawrence Berkley Laboratory, and at Fermi Laboratory, among others, have used DECNET to connect their DEC VAX computers together.

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/ luggo !!
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Please give full credit for references to the following:

Dennis M. Jennings, Lawrence H. Landweber, Ira H. Fuchs, David J. Faber, and W. Richards Adrion.

Any questions, comments or Sluggestions can be emailed to me at Metal Shop, or sent via snailmail to the following address until 12-31-1986:

J. Sluggo
P.O. Box 93
East Grand Forks, MN 56721

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-=+^ Phrack World News ^+=-

Issue Five/Part 1

Compiled and Written By

Knight Lightning

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Where is Taran King?

May 10, 1986

Taran King is generally thought to be a very mellow, easy going person. For the most part this is true. However he also gets into major fights with his dad. When Taran does get pissed he, gets violent. In the past he has punched a hole into his bedroom door and put dents in his refrigerator with his fists.

Most recently his dad found out about his collection of illegal knives, including stilettos, butterflies, and survival knives. They got into an argument about this and eventually into a fight. Taran stormed off to his room. Meanwhile, unknown to him, his dad called the police. They took him to a nearby hospital's adolescent psychiatric ward, supposedly for evaluation. As of June 14, 1986 he has been there for five weeks and the end isn't in sight.

For a while he had no phone of visitor privileges and there was no way of contacting him. This now has changed, but the problems have not been solved.

On May 23, 1986 he was let out on a pass to go see Judas Priest in concert (it was great). He has been let out on pass several times since then as well, mostly on weekends.

As far as Metal Shop Private...

Well on May 12, 1986, the /\/impha and I decided to go to Taran's house to collect the Phrack files and to add a few new modifications to the bbs so that I could control it better remotely. Taran's sister let us in, no problem. Unfortunately, before we were done Taran's dad came home. He immediately spotted my car outside and burst into the house. He was pissed that we were there and made sure we weren't stealing anything (like I am really going to steal from my best friend right?). He assumed that the bbs had crashed and that we were there fixing it. He then decided that he didn't want us to come over every time the board crashed and TOOK IT DOWN!

Metal Shop Private will return when Taran gets out, hopefully sometime in June.

Metal Shop AE April 27, 1986

Metal Shop AE is now the proud possessor of a full 40 megs of online storage. It also has added an individual password system for greater board security and now has an email messaging service online.

Metal Shop AE is sysoped by Cheap Shades. It is one of the main distribution centers for Phrack Inc. It has the complete Phrack series online as well as almost 1000 other files.

To become a member of Metal Shop AE, contact Cheap Shades, Taran King, or Knight Lightning.

To upload files for distribution in Phrack Inc. be sure to upload them to drive E which will save your file to a non-public viewable drive where it will stay until it is edited for Phrack.

Mark Tabas and Karl Marx Busted

May 2, 1986

The story goes like this; Mark Tabas was working at a plant in Denver where credit card blanks are manufactured. He decided to take a few. He and Karl Marx then went about finding someone with an embossing machine to print some stuff onto the blanks. They were able to find someone and agreed to meet at a motel to do the work. Everything went well. They were able to print card numbers, names, and expiration dates that they had gotten onto the blanks. To celebrate they ordered a bottle of champagne from room service, and paid for it with one of the cards. At that point the guy with the embosser pulled his badge, Secret Service! Now Mark Tabas and Karl Marx are facing forgery and carding charges along with theft for the blanks.

Information provided by Sally Ride...Space Cadet

(Editor's Note: At the time that this information was gained, Sally Ride commented that it may be a rumor. Any inconsistencies are not his fault)

May 15, 1986

We at Phrack have since uncovered more information about this bust. Apparently a guy named Will Bell, who's handle was Jack Bell, set up Karl Marx and Mark Tabas. Will Bell had the embossing machine and was not a member of the Secret Service. Instead, he was the son of a member of the Secret Service (although maybe he was the son of a member of the FBI). Since he was not a fed, this was not a case of entrapment. It is believed that Will/Jack Bell is originally from the 312 (Chicago) area.

Information Provided by Jester Sluggo and The Sprinter

FBI/Wylon In Action

On May 2, 1986, the homes of Cheap Shades and Kleptic Wizard received visits from Edward P. Nowicki, Special Agent of the Federal Bureau of Investigation.

This was not a bust in any way. This agent was trying to gain evidence for a telecommunications company known as Wylon, which is mainly based in the Colorado/Wyoming area. Apparently someone or several people had been calling Kleptic Palace AE and Metal Shop AE illegally and Mr. Nowicki wanted to know who had been placing these calls.

As far as Kleptic Palace AE, the calls in question were made on 2/9/86 5:12 AM, 2/9/86 4:33 PM, and 2/10/86 7:30 AM. Although no specific order is mentioned. The times of the calls made to Metal Shop AE are not available. A third place called was the home of TWCB Inc. At the time of these calls Whackoland was still up.

The agent expected all of them to have a caller log on the board but of course neither of their AEs kept caller logs. Not to mention the fact that no one would kept a caller log for three months anyway.

Kleptic Wizard got a message to Taran King which was then sent to me, and within the hour I arrived at Klepto's house where I discovered the FBI still around, so after killing another 45 minutes, I went inside and met with Klepto. Mr. Nowicki had left behind two things, his business card and a list of four suspects that he was specifically trying to bust. Apparently all four had been caught for Wylon abuse in the past.

I recognized the name at the top of the list almost instantly and as a result, saved a fellow phreak from a possible bust. Two of the others are rumored to have been warned as well. However if this is untrue then the other three still may be in great danger as of this writing. All of the suspects live in the Wyoming/Colorado area.

The homes of Cheap Shades and Kleptic Wizard were not searched and their boards

were not looked at. The FBI agent even declined an invitation from Kleptic Wizard to see the bbs. This may be because he didn't have a warrant.

Information provided by Kleptic Wizard and Cheap Shades

Administration Nominations?

May 6, 1986

In late April 1986, The Administration decided to have their yearly membership drive for the group. The phreaks/hackers being voted on for membership included:

Blade Runner/Jester Sluggo/Knight Lightning/Oryan Quest/Phlash Gordon Recent Change/Sally Ride/Slave Driver/Taran King/The Marauder

Many of the above and others had thought that they had been voted into the Administration without even being asked. However this was not the case.

David Lightman stated that the nominations were made public so that the Administration members would know of the vote taking place on Administration $\tt RBS$

1. Once the nominations were voted on, then the phreaks/hacks would be formally invited.

I now pose an important question. If David Lightman is the only regular board caller of the Administration, then how would the other members know how to vote?

So far the results of the votes have not been made public. Not that it matters that much because The Administration has now more or less completely fallen apart. It would appear that this new membership drive was an attempt to revive the group with new blood. However the group has been revived on its own, since the formers members regrouped again...at least temporarily.

Some Information Provided by David Lightman

Trouble in Texas

June 2, 1986

In the last week of May, David Lightman, decided to do a credimatic check on Blade Runner. To his great surprise, he found that Blade Runner worked for Southwestern Bell Security. He confronted Blade Runner with this information and shortly afterward received a visit from Southwestern Bell Security, who confiscated his terminal programs, his user files, notebooks, and g-phile disks. He claims that his user files and g-philes were scrambled so no one should worry too much.

Later that day, Sir Gamelord, sysop of World's Grave Elite, called David Lightman and said that Blade Runner was on the board and acting really strange. David Lightman told him what happened and they then hung up. The next day Blade Runner is a cosysop of World's Grave Elite as well as Thieve's Underground, sysoped by Jack The Ripper. Now Sir Gamelord denies the incident ever occurred. At this writing, David Lightman is laying low and retiring from the phreak world until things clear up.

Sir Gamelord's side to this story is quite different. Sir Gamelord said that he, Blade Runner, and Jack the Ripper were forming a group called the P.H.I.R.M. (see Phrack Pro-Phile 3 this issue) and that Lightman wanted to be in and to lead the group as a subsidiary of The Administration (like Team Hackers'86). They refused, and took away his cosysop access on their boards. Sir Gamelord says that Lightman is making this whole Southwestern Bell Security story up to get revenge on them.

However, Lightman claims that he was asked to be a member of The P.H.I.R.M., but refused because he didn't have the time. He did however recommend Digital Logic, Ford Prefect, and The Lineman (sysop of the Lost City Of Atlantis).

David Lightman has since received his disks back but will not be around on boards very much. The decision is up to you. I will try to get more information out on boards as soon as possible.

Information provided by David Lightman and Sir Gamelord

Ninja NYC/Sigmund Fraud; Close Calls

Sigmund Fraud, famous for his incredible proficiency at "social engineering" is now laying incredibly low after what is considered the closest call of his life.

The following must be regarded as pure rumor for the sake of non-incrimination of those involved. You readers know what I mean.

The story goes like this, Sigmund Fraud and a friend (the same one who went to the Telepub'86 meeting in New York, however he has no handle) were able to convince their local Bell company that they were another part of the same company and were able to acquire; Call Forwarding, Call Waiting, Speed Calling, and Three Way Calling on to Sigmud Fraud's personal phone line. Since SF's friend lived in a Cross Bar (X-Bar) area he could not get these services so they decided to get them for Ninja NYC. They told him about it later.

Less than a week later, on the first Thursday of May 1986, Ninja NYC came home to discover 2 telco agents awaiting his return from school. What it boiled down to was that "he" had committed several felonies and to make matters worse, the people at the local Bell company identified Ninja NYC's voice as being the caller, AND HE ISN'T THE ONE WHO MADE THE CALL!!!! What it finally boiled down to was that Ninja NYC had really received a very scary personal warning.

About this same time Sigmund Fraud is getting home and to his great dismay, all of his new found phone features have been turned off!!?! Sometime later (most likely after the telco agents had left) Sigmund gets a call from Ninja NYC. Ninja NYC of course tells him everything that had happened and warned him that he was next. Sigmund immediately called me. We both thought Sigmund was doomed and would be picked up very soon.

However this was not the case. The agents didn't show up and Sigmund had been given a golden opportunity to dump all his illegal items and get his story right. That night I received a call from Slave Driver and Sigmund call me on three-way and we discussed what to do next. The problem was that Sigmund didn't want to get rid of his illegal items. He had boxes, manuals, notebooks, and even a PBX in his room. I told he had 2 choices; Choice A: SF gets rid of his shit somewhere anywhere, and the telcos don't get any more evidence or, Choice B: SF leaves the stuff where it is, the telcos come over and take it and SF gets nailed worse.

When I left the conversation SF was still discussing what he should do. The next day, he was not visited by the telcos, he was not busted, but instead received a call from his local bell company and was given a very strong verbal warning.

Since that time, He has stopped answering his personal phone and believes that line to be monitored. Ninja NYC is almost definitely being monitored and people have been asked not to call him.

Of course that didn't stop Daniel Zigmond from calling him. This was in an attempt to help Sigmund Fraud, but regardless may have done more damage than good.

> Information Provided by Sigmund Fraud/Slave Driver/Knight Lightning

Telecomputist; Printed Newsletter

June 8, 1986

To: You!

I have drafted the idea for a newsletter and I stress the word newsletter. TWCB had promised everyone a 40+, glossy page magazine for an outrageous amount. I do not want to say that we are taking TAP over because we are not, but instead making amends for what TWCB did not do. To show our sincerity we will be offering the first issue free. It will be your basic newsletter with exceptional articles from experienced phone phreaks, computer hackers, and telecom buffs. Each issue will be a set four pages but since this is the grand opening issue it will be longer (20 pages). For the first free issue please send a postage paid, self addressed envelope to:

TeleComputist Newsletter
P.O. Box 2003
Florissant, Mo. 63032

Also, please send subscriptions to the same address. The subscription fee for the newsletter will be twelve dollars a year, fifty cents for back issues. This is a monthly circulation and we encourage letters.

The "TeleComputist" Staff includes:

Forest Ranger/Data Line/Reverend Enge
Ax Murderer/Chris Jones/Knight Lightning/Taran King/Mad Molester

Information Provided by Telecomputist Staff

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-=+^ Phrack World News ^+=-

Issue Five/Part 2

Compiled and Written By

Knight Lightning

Captain Midnight's Sneak Attack

May 12, 1986

"A daring intruder airs the beefs of dish owners"

In the old days, people with complaints against the media had few recourses: A stern letter to the editor, perhaps, or a protesting phone call. "Captain Midnight," an outraged consumer of the space age, took more daring action. In a sneak attack made on Sunday of last week, the self-appointed video avenger broke into an HBO presentation of the movie "The Falcon and the Snowman" with a cryptic message:

Good evening HBO
From Captain Midnight
\$12.95/Month? No Way!
(Showtime/The Movie Channel Beware)

The mysterious dispatch, seen for several minutes in the East and Midwest by hundreds of thousands of subscribers to the pay-cable service, was clearly intended as a rallying cry for the more than 1.5 million owners of home satellite dishes in the U.S. These video free-lancers are angry because many of the TV signals they have been plucking from the sky are done by one tuning into jumble. In January, HBO and Cinemax (both owned by Time Inc.) became the first two cable services to scramble their signals, thus preventing dish owners from watching them without paying a monthly subscription fee. Showtime and the Movie Channel will begin similar scrambling on May 27, and most other satellite-beamed cable channels, including ESPN, MTV, the Disney Channel, Cable News Network and Superstation WTBS, will follow suit before the end of the year. Their actions have set off a heated battle over just who has the right to TV signals bouncing through the skies.

In one blow, Captain Midnight has become a folk hero in that struggle, though his identity remains a mystery. Ordinary home dishes are able only to receive signals, not to send them; thus experts think the pirate signal probably came from a TV station or other commercial facility. Wherever the stunt originated, TV executives were not amused. HBO has lodged a complaint with the FCC, threatened to prosecute the pirate, and made technical adjustments that it claims will prevent any repeat attack.

"He probably thinks this was a prank," says HBO Vice President Dave Pritchard.
"But the fact is someone has interfered with authorized satellite
transmissions." The incident has raised concerns that other satellite-borne
communications, including sensitive data transmitted by business and the
military, could be similarly disrupted. Representatives of the three broadcast
networks insist that a 'hacker' would have difficulty breaking into their
programming. But any satellite signal could theoretically be disrupted,
experts say "Most satellites are built with some safety measures," explains
Karl Savatiel, director of satellite communications for AT&T. "But all
satellites, including military satellites, are vulnerable if a person knows
where the satellite is located, the frequency it uses for satellite
transmissions, and the sender's code."

Taken from Time Magazine May 12, 1986 Reported by Jim Byers/Los Angeles and Jerome Cramer/Washington.

Typed for PWN's usage by The Seker

News On Captain Midnight

April 28, 1986

"Search for Cable TV Prankster Leads to North Texas"

The search for Captain Midnight, the disgruntled video prankster who briefly commandeered Home Box Office's satellite transmissions over the eastern two-thirds of the country early Sunday, has led federal investigators to North Texas, a Justice Department official said Monday.

John K. Russell, a Justice Department spokesman in Washington, told Knight-Ridder Newspapers that "the perpetrator is believed to be in North Texas." Later he said the search was in Texas "as well as other areas."

Other authorities told Knight-Ridder that investigators in the Dallas field offices of the FBI and the Federal Communications Commission (FCC) have been focusing on a tip that Sunday's four-minute cable interruption originated in North Texas.

FBI and FCC officials in Dallas could not be reached for comment Monday.

Captain Midnight interrupted a movie broadcast Sunday with a message protesting new fees being charged the owners of satellite dishes for access to HBO. The five line message, superimposed on a test pattern, said:

> "Good evening HBO from Captain Midnight. \$12.95 a month? No way! (Showtime-Movie Channel Beware.)"

In January, HBO began scrambling its broadcasts to prevent owners of satellite dishes from unauthorized interception of the signal as it bounced from a satellite to cable television systems.

HBO told dish owners that they would have to buy a descrambler for \$395 and pay \$12.95 a month.

"While the man on the street may have once thought that Captain Midnight's message was limited to being a prank, it does represent a very serious threat to any company or entity using satellites to transmit information," said Alan Levi, HBO's manager of corporate public relations.

Other:

Alan Levi: [212] 512-1659 (Cooperate affairs)

David Pritchard: [212] 512-1413 (Cooperate affairs)

Tim Larker: [212] 512-5666 (Network scrambler assistant)

New York City FCC: [212] 620-3438 (Federal Communications Commission)

HBO Cooperate Offices: [212] 512-1000

David Lightman:

I have spoken with several people about 'Captain Midnight'. I have spoken to everyone above. This David Pritchard tried to tell me this:

DP = David Pritchard

DL = David Lightman

DL: Where do you think this 'Captain Midnight' is?

DP: Would assume he is in the North Texas region. Possibly 214.

DL: What makes you think this?

- DP: We believe this is true due to a tip from a Dallas resident.
- DL: How do you know that he was not lying to lead you away from the real Captain Midnight?
- DP: I know he was probably not lying because he left us his mailbox number.
- DL: Which is?
- DP: I cannot release that information right now.

(This conversation went on for a while. Possibly 10-15 minutes...)

David Lightman earlier had spoken with Alan Levi...

DL: Yes. Do you have any idea who this Captain Midnight might be?

Alan: No, but we are fairly certain it is someone in the 212 area with access to the scrambling offices of HBO. The knowledge necessary for what this guy did could not be gotten very easily without getting it from our departments.

DL: Well, I believe I know who this Captain Midnight is.

Alan: Could you please tell me who you think Captain Midnight is?

DL: No. If it is the person I suspect, I would rather not cause any trouble for them.

Alan: You wouldn't cause much trouble for him.

DL: Isn't what this guy did a federal offense?

Alan: Well, yes it is, but you would be surprised how many people get away with breaking federal laws.

(He actually said that guys!)

DL: Hmm.... What would happen to him?

Alan: We would just let him know that what he did was not a prank. It was very serious. It could possibly change the entire industry and unless he stops transmitting over our satellites, we will ask the Department of Defense to handle it from then on.

DL: Well, I would need to think about it a little more. Can I call you back a little later?

Alan: Could you just give me your number and I will have David Pritchard call you back?

DL: It depends on who else will get my number.

Alan: Just me. I will consider this conversation and all of the conversations that follow to be an anonymous tip.

DL: Sure then. It is (214) 733-5162.

Alan: Thanks. Then I will have David call you if you do not call me back before tomorrow evening.

DL: That would be fine. Thanks.

Alan: Thank you.

Well as you may have guessed, my number (mailbox) was given to the FCC, FBI, and David Pritchard as well as Tim Larker. I got pretty pissed so I called

4

David Pritchard. That was the first conversation I posted. We (Alan Levi, David Pritchard, Tim Larker, the FCC, the FBI, Knight-Ridder Newspapers, and I) now have the country believing that the transmission originated in Dallas. Of course it did, but you may see that changed soon. I plan on another conversation with these intelligent people tomorrow 5:00 PM.

If you do call these guys, please do not mention the Administration, Team Hackers'86, any member of either group or me to them as being the transmitter. You have no proof at all about that. I did not say if we were involved or not. That will be left up to your imagination.

Information and Interviews Provided by David Lightman

Captain Midnight Busted!

June 6, 1986

Captain Midnight probably isn't sleeping too well these days. His name, still publicly unannounced, is probably known by many, including the FBI. He has already been reported to have been fired from his job at an uplink facility, of which there are only around 100 in this country. The facility is east of the Rockies and does not operate after midnight. Also, a newer type of equipment was used of which there are only a few in the country. We expect charges to be filed any day now, possibly just in time for the June 12th congressional hearings on signal jamming. Penalties could include a one year jail sentence and up to \$50,000 in fines; \$10,000 maximum of which would be for jamming only.

We expect FM America to come to Captain Midnight's rescue financially by raising defense money. All segments of the TVRO industry condemned the signal jamming. It is interesting to note the grins and smiles while discussing the subject, however, FM America knows who "Captain Midnight" is and even interviewed him live on the air on "FM America." Tapes of FM America including Captain Midnight's interview have been turned over to federal investigators.

Several benefits can be realized by Captain Midnight's signal "interruption." Mainly, the fact is now known by everyone that it can be done. There are no secrets either in that a transponder can easily be confused into locking onto another signal and ignoring the correct signal as interference. Also, the signal that controls the satellite's positioning could also be accessed. The overall possibility that our entire "satellite system" in general can be rendered ineffective from the ground is kind of unnerving.

Signal scrambling did not interfere with the HBO signal lockout because a higher wattage beam over-powered it. The networks all use pretty powerful beams which are used 24 hours-a-day so they would be harder to jam. If we had to guess which uplink was used to jam HBO, we would pick one that was already locked into the same satellite, such as one of the superstations. (Hint, Hint!)

Information provided by Handsomest One

Who is Ralph Meola?

May 20, 1986

Ralph Meola is the Head of AT&T Security in New Jersey and theoretically everywhere else as well. He is known to have a computer file on hackers and phreaks, and an investigative team, that rivals John Maxfield's "BoardScan".

How did Meola enter into the public eye? Well, we at Phrack really aren't completely sure but, the general idea is that a friend of Sigmund Fraud (See TelePub'86 in PWN issue III), using social engineering in order to gain information from AT&T, somehow came into contact with Ralph Meola.

Later, Sigmund Fraud was also brought into this and decided to give Ralph Meola a call himself. With Gin Fizz on Sigmund's 3-Way, he got Meola on the phone and said, "Hey! This is Sigmund Fraud!" Typing sounds could be heard in the background and in a few seconds Meola responded with Sigmund Fraud's real name, address, phone numbers, and the names of several BBSes that he was on.

Meola then insisted that Sigmund Fraud give him his account on Stronghold East

or at the very least, all of the newuser logon procedures and passwords. Failure to do so would mean big trouble for Sigmund Fraud. Sigmund of course gave Meola the always nice "fuck you!" and hung up on Meola.

Although Sigmund Fraud was (at the time) on Metal Shop Private, Meola didn't know it, or at least he didn't mention it as a BBS that Sigmund was on. This means that Meola has no agents on Metal Shop Private. It is also known that Meola has no agents on Stronghold East. Otherwise he wouldn't have needed the password information from Sigmund. It is believed that Meola was on Stronghold East before the MASSIVE purge several months ago.

Information Provided by Sigmund Fraud/Gin Fizz/Slave Driver
The assumptions and theories are my own -KL

Slave Driver has since sent Ralph Meola the following letter:

TO: Ralph Meeola

Head AT&T Security

From: Slave Driver

Re: My user.

Hello. I find it rather hard to get in touch with you through normal means, but give me some time.

I was told you have been threatening my users, trying to get access here. That is not good. Ralph, if you want access just ask for it, don't go threatening my users. That was not an intelligent idea, Ralph.

If you are such a big guy [in your mind, and uh, hand] why not give me a call. I'm sure you have my number. I would be very interested in talking to you. So, you decide, Ralph. Either way, we'll talk one day.

Bye Ralph,

Slave Driver

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-=+^ Phrack World News ^+=-

Issue Five/Part 3

Compiled and Written By

Knight Lightning

Cracking Down On Abuse

This article is from the January issue of MCI World, a monthly newsletter published by MCI for it's employees.

The nationwide attack on telephone fraud got a boost recently when the U.S. Secret Service joined the effort to curb the crime that costs the industry millions in lost revenue annually.

The Secret Service used new jurisdiction over the telephone fraud for the first time to arrest five individuals in raids on four illegal "Call-Sell" operations in New York City last November.

The five suspects are awaiting trial in federal court on charges based on a Secret Service investigation conducted in cooperation with MCI and other members of the long distance telephone industry.

The defendants were charged with violation of a law on Fraud In Connection With Access Devices which carries maximum penalties of 15 years imprisonment and a fine of \$50,000, or twice the value of the fraudulent activity.

Several other investigations are under way and future arrests are expected, according to a Secret Service spokesman.

MCI cooperated in the investigation as a company and through membership in the Communications Fraud Control Association (CFCA), made up of some 35 telephone industry firms.

"Because it's an industry-wide problem, we have organized to crack down on all kinds of fraud, from the isolated 'hacker' to more organized schemes to use long distance lines illegally," said Everick Bowens, senior manager of MCI security investigations and president of CFCA.

The Secret Service said that in the New York cases, the defendants operated Call-Sell businesses out of their homes and charged "customers" a flat fee for making long distance calls. They used "Blue Boxes" and stolen or compromised authorization codes or credit card numbers to use the long-distance networks of several companies.

Blue Boxes are electronic tone-generating devices used to bypass billing systems and gain access to company networks. They can be assembled from generally available electronic parts or they can be purchased ready-made through illegal sources.

In the New York raids, agents seized unauthorized cods and credit card numbers, four Blue Boxes and more than 20 telephones.

It is estimated that in 1984, fraud in the telecommunications industry totaled \$500 million nationwide, and approximately \$70 million in the New York City area.

CFCA members are primarily inter-exchange carriers, such as MCI, but resale

carriers and some Bell Operating Companies (BOCs) are also members, along with representatives of computer services and credit card companies.

Bowens says CFCA is intensifying efforts to stop the spread of fraud. Among other things, CFCA is developing educational packages for carriers and the public to promote widespread understanding of telephone fraud and ways to counter the crime.

"Our aim is jointly to prevent, detect, investigate and prosecute any fraudulent use of our long-distance networks," Bowens said.

Authorization codes are obtained by theft from individuals and by "hackers" who randomly try combinations of numbers by telephone or through computer scanning of number combinations until a working code is "hit." Illegally obtained codes are fraudulently used by "boiler room" telemarketing operations, for example, or are passed along for use by individuals.

MCI had developed software to detect illegal entry into its network and it is expected that the spread of dial 1 service, in which authorization codes are not used, will help reduce the incidence of telephone fraud.

Comments from the Bootleg:

You reckon they mean us?????????????

What's wrong with them, can't they take a joke?????????

The Many Faces Of Fraud

The following is an article from the January issue of MCI World, a monthly newsletter published by MCI for it's employees.

This new year will see a stepped up MCI attack on telephone fraud--illegal use of the long distance network through access by stolen authorization codes or electronic devices. The offensive is led by Everick Bowens, senior manager of MCI's security investigations department and president of the industry-wide Communications Fraud Control Association (CFCA). Success in curbing this theft of service has earned MCI security investigators a reputation as super sleuths at headquarters and in the divisions.

New teeth were added to the attack on telephone fraud when the U.S. Secret Service was assigned to augment continuing investigative efforts by the FBI and other law enforcement agencies.

Because telephone fraud is outright theft from the company, MCI is determined to prevent, detect, investigate and prosecute any illicit use of its network. To learn more about how MCI conducts its anti-fraud campaign, MCI World talked with Bowens.

MCI World: Is it true that MCI has systems that can detect fraudulent activity while it is occurring?

Bowens: Yes, our fraud systems detect abnormal usage and hacking. The systems also help us to track down offenders even when we have only the authorization code he or she is abusing. Because we can profile abusers and trace phone calls, it is easier for us to prepare cases for prosecution.

MCI World: Abuses involving computer "hacking" to get authorization codes seem to attract public attention. But there are other types of fraud equally damaging to the telecommunications industry. Would you identify some of these?

Bowens: The primary form of abuse is by "hackers," who use computer programs to derive customers' authorization codes. These codes can be widely disseminated via electronic bulletin boards. Because many of these boards are public, the codes fall into the hands of anyone with access

to the boards. We also encounter electronic toll fraud, which involves tone-generating devices that allow offenders to place fraudulent calls.

MCI World: Is one type of fraudulent activity more prevalent than another?

Bowens: Nationwide, fraud most frequently originates from military posts, college campuses, and prisons--places where there are numbers of people far from home, or who have little else to do but manipulate the telephone. This type of abuse prompts the bulk of our investigations.

MCI World: Who is most likely to commit fraud? Is there a general profile of the common offender?

Bowens: Computer crime typically occurs in affluent, metropolitan suburbs and involves juveniles. Electronic fraud also occurs in major metropolitan areas. Other abusers, such as high-pressure tele-marketeers, usually follow the coast lines. California and Florida, for "boiler room" operations in which phone service is used illegally to sell merchandise. However, fraud can't be totally attributed to any specific group at any particular time.

MCI World: How can you keep up with code abuse and fraud? Don't offenders change frequently?

Bowens: Interestingly enough, the patterns don't change much. Those who commit fraud form a finite community that doesn't expand a great a great deal over time. Casual offenders, individuals who may take advantage of a "hot" toll free number, will use the number only when it's hot. Once the number no longer works, they're not likely to repeat the offense. On the other hand, repeat offenders are dedicated to getting something for nothing. They're somewhat easier to identify because they commit the same offense over and over.

MCI World: How does MCI know when it is the target of fraudulent activity?

Bowens: Our systems generally alert us, or an employee or a customer informs us. People know the MCI name. When they recognize something happening illegally with an authorization code, they'll get in touch with us. People generally feel that a cheat is a cheat, a crook is a crook, and if they have to pay full value for a phone call they see no reason why someone else shouldn't. There also are professional tipsters who go from one company to another offering information for a price. However, we rarely deal with them.

MCI World: Which MCI people, by the nature of their jobs, are most likely to detect or at least suspect, fraudulent activity?

Bowens: Our switch technicians have been very instrumental in detecting abuse. They're in a position to identify extensive busy signals on circuits, abnormal calling patterns, and code use. They've identified many hackers just by reviewing their daily call statistics. Employees in our billing department are also good at spotting unusually large bills and abnormal patterns. Though most fraud is detected by the systems we have in place, the human eye continues to be extremely helpful.

MCI World: In addition to working with internal people to help detect fraudulent activity, you also rely on the expertise of external agencies. Which outside agencies assist you with investigations.

Bowens: When fraudulent activity involves the theft or illicit use of authorization codes or credit calling cards, MCI and the Secret Service work together to investigate the case. If other activity is involved, such as the use of our service in furtherance of other crime, MCI works with the FBI. When the U.S. Postal Service is manipulated in a fraud case, MCI and postal inspectors investigate together. Additionally, Bell Operating Companies (BOCs) often provide hard evidence in cases that MCI prosecutes.

MCI World: When you are alerted to suspected fraudulent activity, what steps do you take to open and pursue the case?

Bowens: Security investigators contact the customer whose code is being abused, advise them of MCI's suspicions, and attempt to confirm them. If the response confirms their suspicion of fraud, they open the case. Normally, an investigation entails much research into toll records to identify abusers, unusual call patterns and the parties who might be involved in illicit activity. We also interview parties receiving the calls and document their statements. Once we collect sufficient evidence, we decide whether a case should be pursued as a criminal or civil action.

MCI World: How long does it normally take MCI's investigators to "crack" a case?

Bowens: Typically, investigators can crack a case within hours. Identifying fraud suspects is the easy part. Amassing the evidence—dotting all of the legal i's and crossing the t's—is tougher. Gathering evidence may take weeks and large cases involving many parties can take months to solve.

MCI World: With fraudulent activity knowing no geographical restrictions, how do you segment the problem divisionally?

Bowens: The security investigations department acts primarily in an advisory capacity, helping investigators in the divisions with procedural matters. The divisions generally take responsibility for investigating fraudulent activity within their jurisdictions and corporate investigators pursue cases that are large in scope or require specific expertise. Corporate also takes on cases involving offenders operating in more than one division.

MCI World: Can you elaborate on MCI's goals for reducing the level of fraudulent activity?

Bowens: We want to reduce fraud to the lowest possible level. One of MCI's goals is to cut fraud by more than half in 1986. We want to be the industry leader in curbing this illegal activity.

Broadway Hacker Turned Fed Informant?

June 2, 1986

Broadway Hacker recently called Phreakers Quest and left feedback to the sysop of that system (Shawn) saying, "I do believe that some of this information here is illegal." Shawn called Dark Creeper and reported this to him who then later told it to me.

Sometime later, Broadway Hacker called Knight Bandit to voice validate him for The Radio Station. He claimed he was some sort of fed and that KB would be hearing from someone in Bell Security.

The Radio Station is down because Broadway Hacker has sold his computer, his disks, and everything else and is moving to his new job at an unknown destination. When I spoke with him, he went on that he sold his user log, but would not comment on that any further. He wanted me to print that he was a fed and that all of his former users would soon be receiving visits from the FBI. This is exactly what he told Phantom Phreaker and several others which started a mass riot in the phreak world. One result was the takedown of Alliance for fear of its safety. It since has been put back up.

Broadway justified his actions by saying that by telling rodents he was a fed, it would keep them off his board. Later he said that since he is leaving the phreak world and no one knows where he is going, "To hell with the phreak world, let it fall apart and die for all I care." So this fed scare is an attempt to do just that. Was it a joke? Did he mean that really? I don't know. Maybe he did mean it then but now has changed his mind...

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No one should be worried about this, everything is ok, and Broadway is not working with the FBI. He now claims that he needed his line free for business calls and all of the above were attempts to get people not to be calling him as he didn't have the time or patience. Use your own judgement.

Broadway Hacker still has his Vic 20 and an old modem and is attempting to get back on boards. He has also stated that the Radio Station BBS will be put back up at the end of the summer. Where it will be run from is unknown although, Broadway speculated that when it returns it would be run off of an Amiga.

Information Provided by Broadway Hacker/Dark Creeper/Knight Bandit/Phantom Phreaker

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-=+^ Phrack World News ^+=-

Issue Five/Part 4

Compiled and Written By

Knight Lightning

Grown-Up Laws Sought For Computer Criminals

By Dave Skidmore (Associated Press)

WASHINGTON-Teen-age computer hackers are giving way to a new generation of people who steal information from computers for profit rather than fun, the head of a House crime panel said Wednesday.

"The hackers were the first generation we saw. Now we have a lot of professionals who are getting into the business of accessing computer data bases," said Rep. William J. Hughes, D-N.J. [609/645-7957 or 202/225-6572], the sponsor of legislation aimed at helping law enforcement authorities better cope with the problem.

Hughes commented as the House subcommittee on crime, which he heads, studied the proposed Computer Fraud and Abuse ${\tt Act.}$

Teen-age computer hobbyists, motivated fun and desire for status among fellow hobbyists, use home computers and the telephone to "hack" into government and industry data bases.

Now, Hughes said, hackers' techniques are being increasingly used by industrial spies who sell trade secrets gleaned from corporate computers and thieves who change bank records to steal millions of dollars.

"Computer crime is probably one of the fastest growing areas of crime. (It's) going to make the old robbery and burglary a little passe with certain professionals," he said.

Hughes' bill, cosponsored by Reps. Bill McCollum, R-Fla [202/225-2176], and Bill Nelson, D-Fla [202/225-3671], creates three new offenses.

- 1. It forbids unauthorized access to a computer and drops a requirement that the government prove information in the computer was used or altered.
- 2. It outlaws "pirate bulletin boards" used by hackers to trade secret computer codes and passwords.
- 3. It makes it a felony punishable by up to five years in prison and a \$250,000 fine to maliciously cause damage in excess of \$1,000 to a computer program or data base.

That section of the bill would apply to so-called "Trojan Horse" programs which, when achieving access to another computer, destroy all the data and programs in that computer.

The legislation is intended to plug loopholes in anti-crime legislation passed by Congress in 1984, Hughes said. It applies to computers used by the federal government or its contractors and bank and loan association computers.

Hughes said he expected his bill and similar legislations sponsored by Sen. Paul S. Trible Jr., R-Va [804/771-2221 or 202/224-4024], to reach the House

and Senate floors sometime in May.

Information Provided by Blue Buccaneer

The following is a critical breakdown of the above article.

Blue Buccaneer:

Concerning this law: I always thought it would be more fun to hack for cash, but hey... Anyway, the three new offenses are what I am not to fond of:

- 1) "forbids unauthorized access to a computer" (Gosh, really?) "and drops a requirement that the government prove information in a computer was used or altered" Now what kinda law is that?! The government can just arrest someone and not have to prove anything? COME ON!
- 2) "It outlaws 'pirate BBSes'" When will these people learn the correct terminology? Pirates trade warezzzz, not 'secret passwords and codes'. The point is, that because this is a federal law, it will apply to all states. We aren't talking pussy-laws anymore. Wouldn't it be damn awful if just running the stupid BBS was a crime? Besides that, I thought we had a right to freedom of the press. Again, COME ON!
- 3) "and a \$250,000 fine to maliciously cause damage in excess of \$1000 to a computer program or data base". Excuse me for asking, but can one "maliciously" destroy data? And isn't a quarter of a million dollars a bit much for a teen-ager on a regular allowance? And that much for \$1000 damage? Shit, I wish my insurance company paid like that when I wreck my car. Once again, COME ON!

And then, I guess this is the journalist's fault, but what the hell does that paragraph on Trojan Horses have to do with this shit? I mean really! Do you think Joe Blow in the street is going to go: "Whew, for a minute there I was afraid that new bill might just skip over those Trojan Horse things." I'd kinda assume Trojan Horses were covered under the "maliciously" destroying data rule.

Above written by Blue Buccaneer

Computer Kids, Or Criminals?

Mr. Slippery, age 12, never thought playing on his home computer amounted to much more than harmless fun — until a mysterious call from a stranger one day proved otherwise. "I got a funny phone call from someone offering me money to destroy a bank's records," said Slippery, identified by his hacker alias. "At that point in time, I realized that that's an incredible way to launder money. That if I was real smart, I would move out of the whole thing, because that was an obvious point at organized crime, to me."

Hacking, or using a personal computer to trespass by phone lines into the private computer systems of corporations, foundations, universities and banks, is a new form of organized crime, say experts. In the last year or two, a new, sophisticated breed of hacker has emerged. Their ages vary, from the early hackers who started at 14, and have now entered college, to adults who operate computerized crime networks, but their motives are similar: criminal.

When Mr. Slippery started hacking seven years ago he as an exception among pimply faced, curious kids whose computers were toys for cheap, and typically harmless, thrills. For four years, he lived up to his alias, eventually penetrating top security government computers at the Department of Defense (DOD) and the National Security Agency (NSA). Mr. Slippery remained undetected until his last several weeks as a hacker. He was never caught, never convicted. Toward the end, he realized government security agents were following him and decided to put away his phone modem for good.

"After about four years of this, though, I started realizing that an entirely new crowd had sprung up," observes Mr. Slippery, now a 19-year-old ex-hacker.
"You now have the 14 year olds who were running around destroying things seeing

how much trouble they could cause." Computer crime experts say the hacker problem is getting worse, even though industries are increasingly reluctant to discuss the topic. "The malicious hacker problem is continuing to increase drastically and is getting far more serious," said Donn B. Parker, author of Fighting Computer Crime and a computer and data security consultant at SRI International, a California-based, non-profit research institute.

"The lowering costs of equipment, the attraction of it for new kids coming into it as a rite of passage, points to increasing vulnerability of American business to the hacker problem." Parker's expertise got him hired as a technical consultant to the movie War Games about two teen-age hackers who penetrate government defense computers. Where there is evidence of serious computer hacker crime is on electronic bulletin board systems (BBSes), where hackers share gathered intelligence. "Phone companies have huge investments in their equipment that is highly vulnerable to the hackers, who have figured out how to beat them, and have used pirate boards for their intelligence purposes," said SRI International's Parker.

"A large proportion of these kids are, in fact, juvenile delinquents with other arrest records." Recently, a hacker posted this on a local BBS:

I live in Cleveland and the Pheds are fucking everywhere. This guy who goes by the alias Lou Zer got caught and they told him if he narced on like 5 people he would get off with probation so he did that. Now like half the 2300 club has been busted and this kid has a lot of problems in the future. Also I have seen cops that I know of dressed as fucking federal express guys. Try and avoid using them. Also, here's some PBXs to fuck with. They belong to Standard Oil.

--Later, Sir Gallahad

Other BBSs post lists of telephone numbers of Fortune 1000 corporations, banks, credit bureaus, universities, and foundations.

Admittedly, many of the numbers are invalid, say experts. Though there are BBSes that admit members only by invitation and operate as part of a computer underground, others can be accessed by anyone with a computer and a phone modem. Often the boards carry foreboding names like The Sanctuary, Future World, Dark Side, Deathtrap and Speed Demon Elite. Computer crime is sometimes called the perfect crime. Its perpetrators are anonymous hackers using aliases like Phantom Phreaker, Big Brother, Bootleg, Sigmund Fraud, and Scan Man.

John Maxfield is a computer security consultant who lives in a downriver suburb. Maxfield spends most of his working hours scanning BBSs, and is known by computer crime experts as a hacker tracker. His investigative work scanning boards has resulted in more prosecutions of computer hackers than anyone else in the field, say sources familiar with his work. Maxfield, who accepts death threats and other scare tactics as part of the job, says the trick is knowing the enemy. Next to his monstrous, homemade computer system, Maxfield boasts the only file on computer hackers that exists. It contains several thousand aliases used by hackers, many followed by their real names and home phone numbers. All of it is the result of four years of steady hacker-tracking, says Maxfield. "I've achieved what most hackers would dearly love to achieve," said Maxfield. "Hacking the hacker is the ultimate hack."

Maxfield estimates there are currently 50,000 hackers operating in the computer underground and close to 1,000 underground bulletin boards. Of these, he estimates about 200 bulletin boards are "nasty," posting credit card numbers, phone numbers of Fortune 500 corporations, regional phone companies, banks, and even authored tutorials on how to make bombs and explosives. One growing camp of serious hackers is college students, who typically started hacking at 14 and are now into drug trafficking, mainly LSD and cocaine, said Maxfield. This is an example of a recent BBS posting:

WANTED: LSD, of any kind. Leave me mail if you're willing to talk prices, I'll take anything up to \$5\$ a hit. \$3\$ is more likely.

--urlord

The BBSs are versatile teaching tools, too. Hackers post detailed tutorials on:

HACKING: Using a personal computer and modem to trespass into the private computer systems of corporations, foundations, universities, and banks.

CARDING: Using valid credit card numbers obtained from discarded carbons, accounts posted at video rental stores, or even by hacking credit bureau computers.

TRASHING: Sifting through trash to find discarded credit card carbons, receipts, computer passwords, code words, confidential phone company directories.

PHREAKING or FONING: Manipulating phone systems, usually to make long-distance calls at no charge.

Below is an excerpt from a four-part tutorial on credit card fraud posted on an exclusive East Coast BBS for elite advanced hackers:

_____.

Carding! By Music Major. Believe it or not, without carding, a damper would be put on the computer users of America (and especially Canada). Can you imagine trying to save enough money to BUY a 2400 baud modem and a 30 meg drive for a BBS? Oh, of course it can be done, but considering that a majority of the active computer users are still in school, and most do not have a steady job, it will take too long, and cost too much for this average person to spend on a BBS. Working at minimum wage at a part-time job, it would take 30 weeks of CONSTANT saving to put up the BBS (with good modem and good drive). Not a pretty thought! When the going gets tough, the tough go carding!

Music Major goes into more detail on later, he warns younger hackers about the possible risks of trying a method he claims he invented: "I have called this method foning for cards. To be convincing, you MUST have a fluent tongue and a semi-deep voice (skip this part if your voice is still cracking--refer back when you get a real voice)."

Maxfield's operation is called BoardScan. He is paid by major corporations and institutions to gather and provide them with pertinent intelligence about the computer underground. Maxfield also relies on reformed hackers. Letters of thanks from VISA and McDonald's decorate a wall in his office along with an autographed photo of Scottie, the engineer on Star Trek's Starship Enterprise.

Often he contacts potential clients about business. "More often I call them and say, I've detected a hacker in your system," said Maxfield. "At that point, they're firmly entrenched. Once the hackers get into your computer, you're in trouble. It's analogous to having roaches or mice in the walls of your house. They don't make their presence known at first. But one day you open the refrigerator door and a handful of roaches drop out."

Prior to tracking hackers, Maxfield worked for 20-odd years in the hardware end of the business, installing and repairing computers and phone systems. When the FBI recruited him a few years back to work undercover as a hacker and phone phreak, Maxfield concluded fighting hacker crime must be his mission in life.

"So I became the hacker I was always afraid I would become," he said. Maxfield believes the hacker problem is growing more serious. He estimates there were just 400 to 500 hackers in 1982. Every two years, he says, the numbers increase by a factor of 10. Another worrisome trend to emerge recently is the presence of adult computer hackers. Some adults in the computer underground pose as Fagans, a character from a Charles Dickens novel who ran a crime ring of young boys, luring young hackers to their underground crime rings.

Courtesy of Galaxy Girl and Silicon Thief
Major Editing by Knight Lightning
Written by Lisa Olson (News Staff Writer for Detroit News)

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from KL

actually four posts made on the Carding Subboard on Stronghold East. If this is true then it would mean that at the time or previous to the time of this article Maxfield was on SE. This post was probably taken in before the MASSIVE user purge on Stronghold East.

\003

CONNECTED NODES AS OF 10/05/88 TOTAL NODES = 2491

Node	Site	System
DOCCRC		OS CP6
UNCACDC		
UNCAMULT		
EWC		VMS
DKATS11	Aarhus Tek Skole (ATS)	IBM VM/SP R4
DKJAU11	Aarhus Tekniske Skole, Denmark	IBM VM/SP R4
DKAAUCHE	Aarhus Univ	VMS
ACUVAX	Abilene Christian Univ	VMS
FINABO	Abo Akademi	DEC VMS 4 3
ACADIA	Acadia U	NOS
IMIAGIP1	AGIP S p.A.	IBM MVS/XA V 2 1.5
ALBION	Albion College	VMS
ALCANKTN	Alcan Int Ltd KRDC	VMS
FINALKO	Alko Research Lab , Finland	IBM MVS/XA
ALLEGVM	Allegheny Col	VM/SP
EB0UAB51	Altes Energies-U A. Barcelona	DEC VMS
APSEDOFF	American Physical Soc	UNIX BSD
AUVM	American University	VM/SP HPO
AUVM2	American University	VM/SP
AMHERST	Amherst College Acad Comp Ctr	VMS
TRANAVM1	Anadolu Univ	VM/SP R 5
TRANAVM2	Anadolu University, Eskisehir	IBM VM/SP R5
ANNENRES	Annenberg Res Instit	UNIX
APPSTATE	Appalachian State U	VMS
ANLCMT	Argonne Chemical Tech Div	VMS
ANLCHM	Argonne Chemistry Division	VMS
ANLHEP	Argonne High Energy Physics Div	VMS
ANLMST	Argonne Materials Sci and Tech	VMS
ANLNBI	Argonne Nat Lab Admin NBI	UNIX BSD
ANLADM1	Argonne Nat Lab Admin NBI 1	OASYS
ANLADM2	Argonne Nat Lab Admin NBI 2	OASYS
ANLEES1	Argonne Nat Lab EES NBI	OASYS
ANLNBI2	Argonne Nat Lab EES NBI	UNIX BSD
ANLEES2	Argonne Nat Lab EES NBI	OASYS
ANLEES3	Argonne Nat Lab EES NBI	OASYS
ANLEL	Argonne Nat Lab Elec Div	VMS
ANLEES	Argonne Nat Lab Ener & Environ	VMS
ANLNESC	Argonne National Energy Sfw Ctr	VM/SP
ANLOS	Argonne National Lab	MVS/SP
ANLVM	Argonne National Lab	VM/SP
ANLVMS	Argonne National Lab	VMS
ANLCV1 ANLEMC	Argonne National Lab Cluster VAX Argonne National Lab Electron Mic Ctr	VMS VMS
ANLVG	Argonne National Lab VAX Gateway	VMS
ANLVG	Argonne Physics Division	VMS
ANLPNS	Argonne Pulsed Neutron Src Proj	VMS
ASUIC	Arizona St U Info Ctr	VM/SP
ASUCP1	Arizona State - U Chem/Phys/Solid State	
ASUACAD	Arizona State U	VM/SP
ASUERC	Arizona State U Eng Comp Ctr	VM/HPO
	TITTE OF THE COMP OF T	,

ASUACVAX Arizona State Univ Acad VAX FRIHAP31 Assistance Publique IBM MVS/SP FRIHAP31 Assistance Publique
ACMVM Assoc Computing Machinery VM/SP AUDUCVAX Auburn Univ VMS AEARN Austria EARN BABSON Babson Coll VM/SP VMS BSUVAX1 Ball State Univ VMS BARILAN Bar Ilan U Comp Ctr IBM MVS/SP 1 3.5 BARILVM Bar Ilan Univ CC IBM VM/SP R4 BIMACS Bar llan Univ Math & CS BAYLOR Baylor Univ UNIX BSD 4 2 VMS BAYLRHSB Baylor Univ HSB VM/IS BCIT BCIT Computer Resources

BCSC VM/SP HPO 4 2

NOBIVM Bedrifts Instit VM/SP HPO R5

BEARN Belgium EARN VM/SP

BGUNOS Ben Gurion U Comp Ctr CDC NOS 2 3

BGUVMS Ben Gurion University DEC VMS 4 5

BGUVM Ben Gurion University IBM VM

BENGUS Ben-Gurion U Math Comp Sci UNIX BSD 4 3

BENTLEY Bentley College PRIMOS

CBEBDA3T Berne University IBM MVS/SP

CBEBDA3C Berne University IBM MVS/SP

BGUEE BGU Electrical Eng. DEC VMS 3 7

TRBILUN Bilkent University, Ankara AOS/VS V 7.57

TECHMAX Biomed Engineering Technion DEC VMS

BRCVAX Biotech Res Ctr

INTERBIT BITNET-Internet Gateway VM/SP/HPO BCIT BCIT Computer Resources VM/HPO INTERBIT BITNET-Internet Gateway VM/SP/HPO BITNETDC BITNIC Demo VM/SP BNR BNR Information Systems
TRBOUN Bogazici Univ VM/SP TRBOUN Bogazici Univ

BCCHEM Boston College Chem Dept

BCVAX3 Boston College Computer Center

BCVMCMS Boston College Computer Center

BCVMCMS Boston College Computer Center

BCVMS

BCVAX1 Boston College Computer Center

BCVAX2 Boston College Computer Center

BCVAX4 Boston College Computer Center

BCVAX4 Boston College Computer Center

BOSTONU Boston U Acad Comp Ctr

BUACCA Boston U Acad Comp Ctr

BUISA Boston U Admin Ctr

BUASTA Boston U Astronomy VAX A

BUASTA Boston U Chem Dept VAX B

BUCHMB Boston U Chem Dept VAX C

BUCHMA Boston U Chemistry VAX A

BUCHMA Boston U Engineering VAX A

BUENGA Boston U Met Coll VAX A

BUMETA Boston U Physics VAX A

BUMFGA Boston Univ CIML

BUMFGA Boston Univ MFG ENG A NOS BUMFGA Boston Univ MFG ENG A
BUPHYC Boston Univ Physics VAX C VM/SP VMS BOWDOIN Bowdoin College VMS BGSUSTAT Bowling Green State Univ VM/SP BGSUOPIE Bowling Green State Univ VMS BRANDLOG Brandeis Univ Administration (LOGOS) VMS
BRANDEIS Brandeis Univ Feldberg Comp Ctr BINAH VMS BYULAW Brigham Young U Law Sch VMS BYUSTAT1 Brigham Young Univ VMS BYUADAM Brigham Young Univ UNIX BYUSTAT2 Brigham Young Univ VMS BYUSTAT3 Brigham Young Univ VMS BNLDAG Brookhaven Nat Lab
BNL Brookhaven National Lab
BNLVMA Brookhaven National Lab
BNLCHM Brookhaven National Lab
BNLCL1 Brookhaven National Lab
BNLUX0 Brookhaven National Lab VMS UNIX BSD VM/SP VMS VMS ULTRIX

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BROWNCOG	Brown U Cognitive Sci	VMS
	Brown U Comp Ctr	VM/SP
BROWNCS	Brown U Computer Science Dept	UNIX
BROWNHEP	Brown U Physics	VMS
BRYNMAWR	Bryn Mawr College	VMS
IDBSU	BSU	VM/SP
BUCKNELL	Bucknell U Comp Services	CP6
BKNLVMS	Bucknell U Comp Services BYU Combust Lab VAX	VMS
	BYU Eng College	VMS VM/SP
BYUADMIN		VM/SP
BYUVAX	BYU ISS VAX	VMS
BYULIB	BYU Library	VM/SP
	C.C.N. Pavia, Italy	IBM VM/SP R5
	C.C.S.C, Strasbourg	MVS
	C.C.S.C, Strasbourg, France	IBM VM/SP5
FRCCSC12 FRCICB71	C.C.S.C, Strasbourg, France C.I.C.B. Rennes	IBM VM/XA SF2 BULL MULTICS
	C.I.C.B., Rennes, France	CDC/NOS/VE
	C.I.M.E., Grenoble, France	DEC VMS
	C.I.R.I.L., Nancy, France	BULL MULTICS
ICSCRAI	C.R.A.I., Rende, Italy	IBM MVS/SP 3 8
IPACRES	C.R.E.S Palermo, Italy	DEC VMS
INAMVSXA	C.R.I.A.I. Napoli - Italy	IBM MVS/XA
INACRIAI	C.R.I.A.I. Napoli - Italy	IBM VM/SP
FRIHBO11	C.R.I.H.	VM/SP
FRIHMA21 IBACSATA	C.R.I.H. de Marseille, France C.S.A.T.A Bari, Italy	IBM MVS IBM VM/SP R3 1
FRCTN11	C.T.N.	IBM VM/SF KS I
IMIUCCA	Calcolo Autom Milano, Italy	UNIX 4 3
CALPOLY		VM/SP
CALSTATE	Calif State U	NOS
CALTECH	Caltech	VMS
CITXRAY	Caltech	VMS
CIT4381	Caltech Astronomy DEIMOS	VM/SP
	Caltech Astronomy DEIMOS Caltech Astronomy PHOBOS	VMS
	Caltech CCO	VMS
	Caltech CCO	VMS
CITIAGO	Caltech CCO IAGO	VMS
HAMLET	Caltech C3P/CCO	VMS
CITHEX	Caltech HEP	VMS
CITCHEM		VMS
CANISIUS CARLETON	Canisius College CC Carleton U	VMS CP-6
CMASV1	Carnegie Mellon U Comp Srvs	VMS
DRYCAS	Carnegie Mellon Univ Comp Clb	VMS
CMUCCVMA	Carnegie-Mellon U Comp Ctr	VM/SP
CWRU	Case Western	VMS
CUA	Catholic Univ of America CC	VMS
CUAVAXB	Catholic Univ of America CC	VMS
CUAVAXA CATCC	Catholic Univ of America CC Catonsville Comm Coll	VMS VM/SP
FRMRS11	CCSJ, Marseille, France	IBM VM/SP
FRCCUB11	CCUB	IBM VM/SP5
FRCCUP51	CCUP, Marseille, France	DEC VMS
CDCCENTR	CDC Demo Ctr	NOS
CEBAFVAX	CEBAF Computer Center	VMS
FRSAC12	CEN-SACLAY DPhPE, Gif/Yvette	IBM VM/SP
BIBLIO31	Centennial College	VM/SP
CENCOL	Centennial College	VM/SP 4
CFR CFRVM	Central Florida Reg Data Ctr MVS Central Florida Reg Data Ctr VM	MVS/SP VM/SP
CMUVM	Central Michigan Univ	VM/HPO 4.2
FRAIX11	Centre de Calcul Aix-Marseille	IBM VM/CMS
FRBDX11	Centre IC Bordeaux	VM/SP
FRSAC11	Centre Scientifique CEA Saclay	IBM VM/SP
FRPOI11	Centre Scientifique IBM Paris	IBM VM/SP

VMS UNIX

VMS

VMS VMS

VMS

DEC VMS

CMCCVB CMU Chemistry Dept
CMCCVB CMU Computing Services
ANDREW CMU Computing Services
CGECMU51 CMU Geneve
CMPHYSME CMU Med Energy Physics
CMPHYS CMU Physics Dept
WACES CMU Physics Dept
FRCRPE51 CNET/CRPE

VMS

FNALNET Fermilab

FNALVM Fermilab

FNMFE Fermilab

FNALG Fermilab FNALJ Fermilab

VMS

VMS

VMS

VMS **VMS**

VM/SP

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FNALF	Fermilab	VMS
FNALE	Fermilab	VMS
FNALMDTF	Fermilab	VMS
FNAL01	Fermilab	VMS
FNAL03	Fermilab	VMS
FNAL05	Fermilab	VMS
FNAL17	Fermilab	VMS
	Fermilab	VMS
FNAL27	Fermilab	VMS
FNACP	Fermilab Fermilab	VMS
FNBIT	Fermilab	VMS
FNALH	Fermilab	VMS
FNALI	Fermilab	VMS
FNALK	Fermilab	VMS
	Fermilab	VM
FNALAD	FERMILAB Ntl Lab	VMS
	Fern-Uni Hagen (Informatik)	VMS
DHAFEU61	Fern-Uni Hagen (Informatik)	UNIX BSD
DHAFEU11	Fernuniversitaet Hagen	IBM VM/SP R4
DHAFEU52	Feruniversitaet Hagen	DEC VMS 4 7
FINFUN	Finnish S Comp Ctr Espoo	DEC VMS 4 1
TRFIRAT	Firat Univ	VM/SP R 3
FSUSFS	Fl St U Spr-comp Frnt-end Sys	NOS
FSURAI	FL State U Rsrch Instrtnl Sys	NOS
FSUSUP	FL State U Super Comp Sys	VSOS
NERVM	Florida NE Reg Data Ctr	VM/SP
NER	Florida NE Reg Data Ctr	MVS/XA
FSU	Florida State U	VM/SP
BEARN2	FNRS/NFWO, Brussels, Belgium	VM/SP
FORDMULC	Fordham Univ	VMS
FORDMURH	Fordham Univ	VMS
FANDM	Franklin and Marshall Coll	VMS
FANDMA	Franklin and Marshall Coll Franklin and Marshall Coll	VMS
FANDMB	Franklin and Marshall Coll	VMS
	Franklin and Marshall Coll	VMS
	Fred Hutchinson Cancer Res Ctr	VM/SP
	Fred Hutchinson Cancer Res Ctr Div Cli	n ReVMS
	Freie Universitaet Berlin	SIEMENS BS2000
	Fritz Haber Institut der Max Planck Ge	
FIPORT	FSCC, Espoo, Finland	DEC VMS
DB0FUB03	FU Berlin ZEDAT CDC	CDC NOS/BE 1 5
DB0FUB11		IBM VM/SP
GALLUA	Gallaudet Univ Comp Svcs	VMS
GALLUB		VMS
GALLUE	Gallaudet Univ Comp Svcs	VMS
FRGAN01	GANIL, Caen, France	MAX32 REV A 1
GECRDVM1	GE R&D	VM/SP
CGEHCU61	Geneva Hospital, Switzerland	UNIX
GMUVAX	George Mason U	VMS
GWUVM	George Washington U Comp Ctr	VM/SP
GUVM	Georgetown U Acad CMS	VM/SP
GUVAX	Georgetown U Acad VAX	VMS
GSUMVS1	Georgia State U - MVS1	MVS/XA
GSUVM1	Georgia State U - VM1	VM/SP
GSUVM2	Georgia State Univ CC VM2	VM/SP
GITVM2	Georgia Tech CAE/CAD Lab	VM/SP
GITCDC1	Georgia Tech Comp Svcs	NOS NOS
GITCDC2	Georgia Tech Comp Svcs Georgia Tech Comp Svcs	NOS/VE
GITNVE2 GITATT1	Georgia Tech Computing Svcs	UNIX SYSTEM V
GITVM1	Georgia Tech Computing Svcs	VM/SP/HPO
GTRI01	Georgia Tech Research Inst. Ges. Mathematik Datenv Bonn	VM/SP MVS/SP
DBNGMD21 DDAGMD11		IBM VM/SP R4
DEARN	Gesellschaft fuer Schwerionenf	IBM VM/SP R4 IBM VM/SP R5
DEARN DDAGSI3	Gesellschaft fuer Schwerionfor	IBM WW/SP RS IBM MVS/XA 2 1.3 VFE
FRGETA11		VM/SP
GBURG	Gettysburg Coll	VMS
32310	5555155015 5511	V110

IZ.LAL	Wed Apr 20 09.45.44 2017 14	
DGHGKSS4	GKSS, Geesthacht, Ger	SIEMENS BS3000 E 40
DBNGMD12	•	IBM VM/SP R5
SEGUC11		IBM VM/SP R2
SEGUC21	Gothenburg U Comp Ctr	IBM MVS/SP 1 3.3
UKACRL	Great Britain EARN London	IBM VM/SP R3
FRPROG61	9	UNIX
GRIN2	Grinnell College - Admin	VMS
GRIN1	Grinnell College Academic	VMS
FRGAG51	Groupe Astrophysique Grenoble	VMS
DGAGRS2A	GRS Garching	IBM MVS/XA
DK0GRS11	GRS Koein	VM/SP
DM0GSF11		VM/SP
	GSF-MEDIS	VMS
DDAGSI5		DEC VMS 4 3
	GSI Darmstadt, Germany	IBM VM/SP R4 0
DDAGSI10	· · · · · · · · · · · · · · · · · · ·	IBM VM/SP R4 0
GACVAX1	<u> </u>	VMS
DGOGWDG1	GWD Goettingen, Germany	IBM VM/SP R4
DGOGWDG5	GWD Goettingen, Germany	DEC VMS
GWUVAX	GWU - School of Eng.	VMS
SEASVM	GWU - School of Eng. IBM	VM/SP
	Hadassah U Hospital	DEC VMS
	Hahn-Meitner-Institut Kerforschung	SIEMENS BS3000 MSP 10
	Haifa University	IBM VM/SP R4 1
	<u>≠</u>	-
HAMPVMS	Hampshire College	VMS
KRHYUCC1	- 1 - 3 -	VMS
HUSC5		VMS
HUSC2	Harvard HASCS	BSD UNIX 2.9
HUARP1	Harvard U Atmos Res Project	VMS
HARVBMB	Harvard U Biochem & Molecul Bio	UNIX BBN
	Harvard U Biostat Res Cmptng	ULTRIX
HARVBUS1		VM/SP
HUCHE1	Harvard U Chemistry VAX1	VMS
HARVARD	Harvard U Computer Science	UNIX BSD
CFA2	Harvard U Ctr Astrophysics	VMS
CFA3	Harvard U Ctr Astrophysics	VMS
CFA	Harvard U Ctr Astrophysics	VMS
CFAAMP	Harvard U Ctr Astrophysics	VM/SP
CFA4	Harvard U Ctr Astrophysics	VMS
CFA5	Harvard U Ctr Astrophysics	VMS
CFA6	Harvard U Ctr Astrophysics	VMS
CFA7	Harvard U Ctr Astrophysics	VMS
CFA8	Harvard U Ctr Astrophysics	VMS
CFAPS2	_ _	VMS
	Harvard U Ctr Astrophysics	
HARVPCNA	2	MS-DOS
HUGSE1	Harvard U Grad Sch of Ed	VMS
HARVHEP	Harvard U High En Physics Lab	VMS
HUHEPL	Harvard U High Energy Physics	VMS
HUXTAL	Harvard U Mole Bio Cmptng.	VMS
HARVARDA	Harvard U OIT	VM/SP
HUSSLE	Harvard U Physics Dept	VMS
HARVUNXW	Harvard U Psychology Dept	UNIX BSD
	Harvard U Psychology Dept	UNIX
HARVUNXU		UNIX BSD
	Harvard U Science Ctr	
HUSC6		UNIX
HULAW1	Harvard U Science Ctr	VMS
HUSC3	Harvard U Science Ctr	VMS
HUMA1	Harvard U Science Ctr	UNIX BSD
HUSC7	Harvard U Science Ctr	ULTRIX
HUSC8	Harvard U Science Ctr	ULTRIX
HUSCGW	Harvard U Science Ctr BITNET Mail Gtwy	VMS
HARVUNXT	-	UNIX BSD
HARVSPHA	Harvard Univ Health Sci. Cmptng. Fac.	ULTRIX
HARVSPHB	Harvard Univ Health Sci. Cmptng. Fac.	ULTRIX
FOURCC		VMS
	Harvey Mudd Col Comp Services	
HMCVAX	Harvey Mudd Col Eng Dont	VMS
ECHMC	Harvey Mudd Col Eng Dept	VMS
FROSH	Harvey Mudd Col Eng Dept	VMS

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YMIR	Harvey Mudd Col Math Dept	VMS
	Hautes Etudes Commerciales	
HVRFORD	Haverford Col Acad Comp Ctr	VMS
DKHHA	HDC Aarhus	VMS
	Hebrew U Comp Cnt Unix	UNIX BSD 4 2
HBUNOS	Hebrew U Comp Ctr	NOS
HUJIVMS HUJICS	Hebrew U Comp Ctr	DEC VMS UTX 32
	Hebrew U Computer Sci Hebrew U Faculty of Agriculture	DEC VMS
HUJIFH	Hebrew U Fritz Haber Molec Dyna Ctr	UNIX BSD 4 2
HUMUS	Hebrew U Jerusalem Comp Sc	UNIX BSD 4 2
	Hebrew U Jerusalem, Israel	NOS
HUJIMD		DEC VMS
BATATA	Hebrew U Molecular Ctr	UNIX BSD 4 2
	Hebrew U Mount Scopus Comp Ctr	PRIMOS
	Hebrew U Mount Scopus Comp Ctr	PRIMOS
	Hebrew University	VM/CMS
FINGATE	Helsinki U Tech Helsinki U Tech	UNIX IBM VM/SP R4
FINHUIA	Helsinki U Tech Finland	IBM VM/SP R4 IBM VM/SP R4
	Helsinki Univ of Tech	IBM VM/SP R5
	Helsinki University of Techn	UNIX 4 3 BSD
	Helsinki University of Techn	UNIX 4 3 BSD
	Helsinki University of Techn	UNIX 4 3 BSD
JPNHIROA	Hiroshima Univ	VM/HPO
DDATHD21	Hoch TH Darmstadt	MVS/SP
	Hoch U Dortmund	IBM VM/SP R3
DHDIHEP5	2 1 2	VMS
DHIURZ1	Hochschule Hildesheim Germany	IBM VM/SP R4
HOFSTRA	Hofstra Univ	VMS
HUMAIN HSETC	Howard Univ Central Comp HSETC	MVS VM/SP HPO
HUJIDS	HUJI Dental School	DEC MICROVMS
HUMBER	Humber College	VM/SP
IRMIAS	I Astrofisica Spaziale	VM/SP
IFIIDG	I Document Giurid Firenze	VM/SP
ITOIMGC	I Meteorologia Colonnetti	VM/SP
IRMCRA	I Richerche Aerospaziali	IBM VM/SP
IPVIAN	I.A.NCNR, Pava, Italy	VM/SP
IGEICE	I.C.ECNR, Genova, Italy	CDC NOS 2 4.2
FRILL52	I.L.L., Grenoble, France	DEC VMS
FRILL FRIMFT11	I.L.L. , Grenoble, France I.M.F.	DEC VMS VM/SP
FRURBB51	I.N.S.E.R.M.	DEC VMS
FROPT11	I.O.T.A	IBM VM/IS
TRITU	I.T.U	VM/SP R3
FRPGM11	I.U.T. Progem	VM/SP
AWIIAE21	IAEA	IBM MVS/XA 2 1.3
IRMIASI	IASI CNR Roma, Italy	DEC VMS V4 5
ALMCSVM1	IBM Almaden Res Ctr	VM/SP
ALMCSVM2	IBM Almaden Res Ctr	VM/SP
ALMCSVM6	IBM Almaden Res Ctr	VM/SP
ALMCSVS5 ALMVMA	IBM Almaden Res Ctr IBM Almaden Res Ctr	VM/SP VM/SP
ALMVMA	IBM Almaden Res Ctr	VM/SP VM/SP
ALMVMC	IBM Almaden Res Ctr	VM/SP
ALMVMZ	IBM Almaden Res Ctr	VM/SP
IBMLABNN	IBM Canada Labs	, -
ISRAEARN	IBM Israel SC - Haifa	IBM VM/SP R3
DS0LILOG	IBM LILOG Project Stuttgart	IBM VM/SP R3
ZURLVM1	IBM Research Lab Zurich	IBM VM/SP
EMDCCI11	IBM Scientific Center Madrid	IBM VM/SP R4
JPNTSCVM	IBM Tokyo Research	VM/SP
VNET	IBM VNET Gateway	VM/SP
YKTVMV	IBM Watson Sci Res Ctr	VM/SP VM/SD
WATSON YKTVMT	IBM Watson Sci Res Ctr IBM Watson Sci Res Ctr	VM/SP VM/SP
TUIAMI	IBM Watson Sci Res Ctr	VM/SE

VM/SP

YKTVMH IBM Watson Sci Res Ctr

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YKTVMX	IBM Watson Sci Res Ctr	VM/SP
YKTVMZ	IBM Watson Sci Res Ctr	VM/SP
TJWATSON	IBM Watson Sci Res Ctr	VM/SP
YKTVMH2	IBM Watson Sci Res Ctr Yorktwn	VM/SP
DHDIBM1 DHDIBM1W	IBM Wissenschaftliches Zentrum IBM WZH & ENC Heidelberg	VM/SP VM/SP
FRIBCP51	IBMC, Strasbourg, France	DEC VMS
DKIBT	IBT	IBM VM/IS VER 1 5
SELIUI51	IDA Linkoping, Sweden	DEC VMS
SELIUIDA	IDA Linkoping, Sweden	DEC VMS
BBRIBM11 AWIIEZ11	IEC, La Hulpe, Belgium IEZ Numerischer Rechner, Wien	VM/SP HPO R4 2 IBM VM/SP R4
DHVIFW1	IFW, Univ Hannover, Germany	IBM VM/SP R5
IITVAX	Illinois Inst Tech/ACC	VMS
FRINA11	INA-PG	IBM VM/IS
INDST	Indiana State Univ	VM/SP
IUBACS	Indiana U Bloomington ACS	VMS
IUP IUBVM	Indiana U of Penn Indiana Univ Bloomington VM	HONEYWELL CP-6 C00 VM/XA SF RELEASE 2
IUCF	Indiana Univ Cyclotron Facil	VMS
IUBUS	Indiana Univ Sch of Business	VM/SP
INSTEPS	Indiana Univ Stwde Teah Elec Prod Sys	VM/SP
	Indiana/Purdue U	VMS
INDYCMS	Indiana/Purdue U	VM/SP
INDYMED IUIS	Indiana/Purdue U Indiana/Purdue U	VM/SP MVS/XA
FRINED51	TNED	DEC VMS
IRMEMU	INFN - EMU, Roma, Italy	IBM VM/SP R4
IPIVAXIN	INFN - Pisa	DEC VMS
IPIINFN	INFN Pisa	IBM VM/SP R4
IRMLNF	INFN/LNF	DEC VMS 4 4
ITIVAX ILNPL	Information Technology Inst INPL, Israel	VMS DEC VMS
	INFL, ISIAEI INRA - CTIG	IBM VM/SP R4
	INRA - CTIS	BULL MULTICS
	INRETS	BULL MULTICS
FREIBA51		DEC VMS
FRCCRM51	INSERM, Villejuif, France	DEC VMS
FRIAP51 PTIFM	Inst d'Astrophysique Paris Inst de Fisica e Matematica	VMS DEC VMS
IMISIAM	Inst Fisica Cosmica Milano	VM/SP
IASSNS	Inst for Advan Study	VMS
IASSUN	Inst for Advan Study	UNIX BSD
DBNMEB1	Inst fuer Med Statistik / Med Einrichtunge	
AWIIMC11 IRMISS	Inst Med Computwiss Uni Wien Instit Superiore di Sanita	IBM VM/SP HPO R4 2 VM/SP
EBRIEC01	Institut d'Estudis Catalans	38 CPF
DHDIHEP1	Institut fuer Hochenergiephysi	IBM VM/SP R4
FRILL51	Institut Laue-Langevin	VMS
FRPSTR01	Institut Pasteur	AOS/VS
FRINT51	INT	VMS
FRCPN11 IONAACAD	IN2P3 Ctr de Calcul Iona College Comp Ctr	VM/SP VM/SP
IONA	Iona College Music Sys	VM/SP
ALISUVAX	Iowa S U Ames Lab Dept Energy	VMS
ISUMVS	Iowa State U Comp Ctr	MVS/SP
ISUCARD	Iowa State U Ctr. Agricul. & Rural Dev	VM/SP
ISUEVAX	Iowa State U Eng. VAX Cluster	VMS
ISUVAX DMZNAT51	Iowa State VAX Cluster IPH KCH KPH Uni Mainz, Germany	VMS DEC VMS 4 6
DGAIPP5N	IPP (MPI f. Plasmaphysik)	VMS
IRIS	IRIS	UNIX
IRUCCVAX	IRUCCVAX	VMS
FRISIO11	ISIO - MIAGE	VM/IS
IRMISRDS TRIUVM11	ISRDS CNR Roma, Italy Istanbul Univ	IBM VM/SP R5 IBM VM/SP R3
ITHACA	Ithaca College	VMS
ICUNIX	Ithaca College	ULTRIX
	-	

IZ.CAC	wed Apr 20 09.45.44 2017 17	
FRIUTO11	IUT Orsay	IBM VM
JAXLAB	Jackson Lab	UNIX BSD
JMUVAX1	James Madison Univ VAX1	VMS
JPNJAERI	Japan Atomic Energy Res Inst	VM/SP
JCSVAX1	Jersey City St Co	VMS
ILJCT	Jerusalem Col Tech	DEC VMS
JHUNIX	JHU HCF	UNIX
JHUVM	JHU HCF	VM/SP
JHUVMS	JHU HCF	VMS
JHHMVS	JHU HCF	MVS/XA
JHHVM	JHU Hosp Info Sys Dept	VM/SP
JHUHYG2	JHU School of Public Health	ULTRIX
	JNETDEMO, RAI, Netherlands	VMS 4 6
	Johannes Kepler U Linz	IBM MVS/SP 1 3.8
JCUVAX	John Carroll Univ	VMS
JCVAXA	John Carroll Univ	VMS
JVNCC	John Von Neumann Ctr	VMS
JVNCD	John Von Neumann Ctr	VMS
JVNC	John Von Neumann Ctr	VMS
JHUHYG	Johns Hopkins U	VM/SP
JHUP	Johns Hopkins U High En Phys	VMS
JHUIGF	Johns Hopkins Univ - IGF	VMS
APLVM	Johns Hopkins Univ App Phys Lab	VM/SP
JILA	Joint Inst for Lab Astrophysics	VMS
FINJYU	Jyvaskyla Univ , Finland	DEC VMS 4 4
JPNKIT	Kanazawa Inst. of Tech.	VM/SP
KSUVAX1	Kansas St U Comp Sci Dept	UNIX BSD
KSUVM	Kansas State U CC	VM/SP
HRDKSW5	Kapteijn Sterrenwacht Roden	VMS 4 3
BLEKUL11	Kath U Leuven	VM/SP R4
BLEKUL60	Kath Univ Leuven	UNIX
		MVS/XA 2 2.0
	Kath. Univ Leuven, Belgium	•
BLEKUL12	Kath. Univ Leuven, Belgium	VM/SP R4
BLEKUL10	Katholieke U Leuven Mech Eng	VM/SP R3 1
HNYKUN55	Katholieke U Nijmegen	VMS
HEARN	Katholieke U Nijmegen	VM/SP R5
HNYKUN11	Katholieke U Nijmegen	VM/SP HPO 4 2
HNYKUN22	Katholieke U Nijmegen	MVS/SP 1 3 -TSO/E-
HNYKUN51	~ ~ ~	VMS
HNYKUN53	Katholieke U Nijmegen	VMS 4 1
HTIKUB5	Katholieke Uni Brabant	VMS 4
HNYKUN52	Katholieke Universiteit Nijmegen	VMS
JPNKEIO	Keio Univ	OS IV/F4 MSP
	KEK Network	VMS
JPNKEKTR	KEK TRISTAN	OS IV/F4 MSP
KENTASHT	Kent S U Ashtabula	VMS
	Kent S U East Liverpool	VMS
	-	
KENTGEAU		VMS
KENTVM	Kent S U Info Services	VM/SP
KENTVMS	Kent S U Info Services	VMS
KENTGOLD	Kent S U Info Services	VMS
	Kent S U Salem	VMS
KENTSTAR	Kent S U Stark	VMS
KENTTRUM	Kent S U Trumbull	VMS
	Kent S U Tuscarawas Cmpus	VMS
	Kernforsch Juelich	IBM VM/SP HPO R4 2
DJUKFA21	Kernforsch Juelich	IBM MVS/XA
DKAKFK3	Kernforsch Karlsruhe	MVS/SP
	Kernforschungsanlage Juelich G	VMS
HGRRUG51	±	VMS 4 2
DJUKFA54	KFA Juelich - IFF	VMS
DJUKFA52	KFA Juelich - IPP	VMS
DKAKFK11		IBM VM/SP
DB0ZIB21		IBM MVS/SP 1 3.4
JPNKEKVM	Kou Enerugi Ken, Tsukuba Japan	VM/SP
SEKTH	KTH	UNIX BSD4 3
BLEKUL13	KUL CME	VM/SP R3
JPNKUHEL	Kyoto U HEPL	OS IV/F4 MSP

IZ.CAC	Wed Apr 20 09.45.44 2017	10	
JPNKUDPC	Kyoto Univ	(OS IV.F4 MSP
JPNKYOTO	Kyoto Univ Dept Info Sci		VM/SP
JPNKISCT	Kyushu Institute of Tech		VM/HPO
	-		
JPNKISCI	Kyushu Institute of Tech - Iizuka		VM/HPO
JPNCCKU	Kyushu Univ		OSR/F4 MSP
FRSOL11	L.P.S.O., Orsay, France	-	IBM VM/SP
FRLAAS61	LAAS Toulouse France	Ţ	UNIX
LNCC	Lab Nat'l Comp Cientificia	7	VM/SP
FRUPS51	Lab physique des solides	7	VAX VMS
FRPOLY52	Labo Physique Nucl Haute Eng	7	VMS
LAFAYETT	Lafayette College		UNIX
LAKEHEAD	Lakehead U		UNIX
LUSUN	Lakehead U		SUN UNIX
LUVMS	Lakehead U		MICROVMS 4 5
FRLAL51	LAL, Orsay, France		DEC VMS 4 5
HWALHW5	Landbouwhogeschool Wageningen		VMS 4 3
HWALHW50	Landbouwuniv Wageningen	7	VMS 4 3
FRLAPP51	LAPP, Annecy, France	I	DEC VMS
FRLASM51	LAS Marseille France	I	DEC VMS
FRLASH51	LASH-ENTPE	I	DEC VMS
LAUVAX01	Laurentian University		VMS
LAUCOSC	Laurentian University		VMS
	_		VMS
	Laurentian University		
LAVALVM1	Laval U		VM/SP
LAWRENCE	Lawrence Univ		VMS
SELDC51	LDC Lund, Sweden	I	DEC VMS
SELDC52	LDC Lund, Sweden	I	DEC VMS
LEMOYNE	Le Moyne College	7	VMS
LEHICDC1	Lehigh Univ CC - Cyber 850	1	NOS
LEHICIM1	Lehigh Univ CIM Lab VM1	7	VM/SP
LEHIIBM1	Lehigh Univ Comp Ctr - IBM4381		VM/SP
LEHIGH	Lehigh Univ Comp Ctr - Ntwk Server		MUSIC/SP
LCVAX	Lehman Col Acad Comp Ctr		VMS
DM0LRZ01	Leibniz Rechenzentrum Muenchen		CDC NOS 2 5
LCLARK	Lewis & Clark College		BERKELEY UNIX 4.3
SELIUC51	LIDAC Linkoping, Sweden	I	DEC VMS
DHHLILOG	LILOG-R, Uni Hamburg, Germany		IBM VM/SP R4
FRLIM51	LIMSI-CNRS, Orsay, France	I	DEC VMS
FRLMCP61	LMCP	:	SUNOS 3 4
FRFLU51	LMFA	I	DEC VMS
LIUVAX	Long Island Univ		VMS
LAMPF	Los Alamos Nat'l Lab		VMS
	Louisiana St U Coll Eng		NOS
LSUENG			
LSUMVS	Louisiana St U Comp Ctr		MVS/SP
LSUVM	Louisiana St U Comp Ctr	`	VM/SP
LSUVAX	Louisiana St U Comp Ctr	7	VMS
LSUCHE	Louisiana State Univ Chem Eng VM	7	VM/SP
LOYVAX	Loyola College, MD	7	VMS
LUCCPUA	Loyola U of Chicago	1	MVS/SP
FRLRI61	LRI-Orsay		SUN OS 3 4
NNOMED	LSU Med Ctr - New Orleans		MVS/XA
NSHMED	LSU Med Ctr - Shreveport		MVS/XA
			VM/SP
BDILUC11	LUC, Diepenbeek		
IRMLUISS	LUISS Roma		IBM VM/SP R3 1
FRLURE51	LURE		VMS
LBL	Lwrce Berkly Lab Comp Serv		VMS
LEPICS	L3, CERN, Geneva, Switzerland		IBM VM/SP HPO 4 2
FRMNHN11	M.N.H.M	-	IBM VM-IS
MACALSTR	Macalester College	7	VMS
MCCVM1	Macomb Comm Co	7	VM/SP
FARMNTON	Maine - Farmington Comp Ctr		VM/SP
MANVAX	Manhattan Coll		VMS
MARICOPA	Maricopa Cty Comm Coll Dist		VMS
MARIST	Marist Col		VM/SP
MARISTC	Marist Col		MUSIC
	Marist Col		MUSIC
	Marist Col		MUSIC
MARFSHVM	Marist Col	7	VM/SP

MCO Medical College of Ohio VM/SP

MEDCOLWI Medical College of Wisconsin VMS

MUN Memorial U. of NF VMS

MERIT Merit Comp Net VM/SP

MIAMIU Miami U Academic Comp Service VM/SP

MIAVX2 Miami Univ Hamilton Campus VAX VMS

MIAVX3 Miami Univ Middletown Campus VAX VMS

MIAVX1 Miami Univ Oxford Campus VAX VMS

MSU Mich State Univ. Computer Lab VM/SP

MSUEGR Mich State Univ. Engineering VMS

MTUVAXC Michigan Tech Univ Comp Sci Res VAX UNIX

MTUVAXB Michigan Tech Univ Computer Sci UNIX

MTUVAXA Michigan Tech Univ Ctr for Exper Comp

MTUVAXA Michigan Tech Univ Sys 5

VM/SP/HPO

MCP

MTUVAXA Michigan Tech Univ Ctr for Exper Comp

MTUS5 Michigan Tech Univ Sys 5 VM/SP/HPO

TRMETU Middle East Tech Uni Ankara MCP

MIDD Middlebury College VMS

MILLERSV Millersville Univ of PA VM

TWNMOE10 Ministry of Ed Taiwan VM/SP HPO

TWNMOE20 Ministry of Ed Taiwan VM/SP

MSSTATE Mississippi State Univ CC 1100 OS1100

MITWCCF MIT - Whitaker College Health Sci, Tech & VMSt

MITVMC MIT Admin VM/CMS VM/SP/HPO

MITVMD MIT Admin VM/CMS VM/SP

MITVBUD MIT Budget Actors & Sponsos Programs VMS

VM/SP/HPO MITVBUD MIT Budget, Actng, & Sponsos Programs VMS
MITWIBR MIT Whitehead Instit for Biomed Res VMS
MITBATES MIT Wm. Bates Linear Accel Lab VMS MITBATES MIT Wm. Bates Linear Accel Lab MTSUNIX1 Montana State Univ ULTRIX TECMTYVM Monterrey Inst of Tech VM/SP TECMTYSB Monterrey Inst of Tech
VMTECMEX Monterrey Instit of Tech
VMTECQRO Monterrey Instit VM/SP VM/SP VMTECQRO Monterrey Instit of Tech Queretaro VM/SP MONTCOLA Montgomery Coll VM/SP VM/SP MONTCOLB Montgomery Coll MONTCOLC Montgomery Coll MUSIC/SP/VM

MTAM Mount Allison U MUSIC
MTA Mount Allison U Comp Ctr VM/SP RELEASE 3
DSOMPA52 MPA Stuttgart, Germany DEC VMS 4 7

NAVPGS Naval Postgrad Sch

CHNDDD	NDDE / Comment and Harley Mad Obs.	T 71.4.C
GUNBRF	NBRF/ Georgetown Univ Med Ctr	VMS
CMEAMRF	NBS Adv. Mfg. Res Fac.	VMS
NBS	NBS Consolidated Scie Comp Sys	NOS
NBSENH	NBS Ex. Networks Host	VMS
NBSMICF	NBS Mgmt. Info. Comp. Fac.	VM/SP
MSMFVM	NBS Molecular Structure Model Fac	VM
NCSUPHYS	NC State Univ	VMS
NCSUMAEV	NCSI Mech & Aerospace Eng	VMS
NCSUMAE	NCSU Mech & Aerospace Eng	VM/SP
NCSUCE	NCSU Civil Eng	VMS
NCSUVAX	NCSU Computing Center	VMS
NCSUVM	NCSU Computing Center	VM/SP4
NCSUECE	NCSU Elec & Comp Eng	VMS
NCSUIE	NCSU Industrial Eng	VMS
NCSUMTE	NCSU Materials Eng	VMS
		VM/SP
NDSUVM1		•
NDSUVAX	ND Higher Ed Computer Net	UNIX
NEVIS	Nevis Lab, Columbia U	VMS
NJECNVM	New Jersey Edu Computer Net	VM/SP
NJECNVS	New Jersey Edu Computer Net	MVS/SP
NJECNVM1	New Jersey Edu Computer Net	VM/SP
NJECNVM2	New Jersey Edu Computer Net	VM/XA
ORION	New Jersey Inst of Tech Conf Ctr	VM/SP
MERCURY	New Jersey Inst of Tech Conf Ctr	VM/SP
NMSUMVS1	New Mexico St U Comp Ctr	MVS/SP
	<u>-</u>	
NMSUVM1	±	VM/SP
NMSU	New Mexico St U Comp Ctr	SUNOS
NYSPI	New York Psych Inst	VM/SP
NYUACF	New York U Academic Comp	VMS
NYIIACF7	New York II Academic Comp	VMS
NYUACF1	New York U Academic Comp	VMS
NYUACF6	New York U Academic Comp	VMS
NYUCIMSA		VM/SP
NYUCCVM	New York U Comp Ctr	VM/SP
NYUCMCL1	New York U Courant Math & Comp. Lab	VMS
NYUMED	New York U Med Ctr	VMS
DKNBI51	Niels Bohr Institute, Denmark	DEC VMS 4 6
JPNNIHOC	Nihon U Col of Commerce	VM/SP
	NJ Univ Med & Dent	VSE/SP
UMDNJVM2	NJ Univ of Med & Dent	VM/SP
NOFDB	NLH-Aas, Norway	VM/SP R5
NCSUMEAS	North Carolina St U	VMS
NCSUSTAT	North Carolina St U	VMS
NCSUCHE	North Carolina St U Chem Engr	VMS
NCSUMATH	North Carolina State U	VM/SP4
NCSUADM	North Carolina State Univ Admin Comp Ctr	MVS/SP
NEMOVM	Northeast Missouri State Univ	VM/SP
NEMOMUS	Northeast Missouri State Univ	VM/SP
NUHUB	Northeastern U Comptng Res Ctr	VMS
NEUVMS	Northeastern U Dept Physics	VMS
NAUVM	Northern Arizona Univ	VM/SP HPO
NAUVAX	Northern Arizona Univ	VMS
NUACC	Northwestern Univ Vogelback Comp Ctr	VMS
NUCYB	Northwestern Univ Vogelback Comp Ctr	NOS
NRCBSP	NRC Bilogical Sciences Protein	VAX/VMS
NRCCIT	NRC Cd	
NRCHEM	NRC Chemistry Division	VAX/VMS
NRCDRA	NRC Dominion Astrophysical Obs	VAX/VMS
NRCDAO	NRC Dominion Radio Astro Obs	VAX/VMS
	NRC High Energy Physics	VAX/VMS VAX/VMS
NRCHEP		
NRCHYD	NRC Hydraulics Lab	VAX/VMS
NRCIDO	NRC Industry Development Off	VAX/VMS
NRCPHY	NRC Physics Division	VAX/VMS
NSF	NSF	UNIX
CRNLAES	NYSAES	PRIMOS
CERAMICS	NYSC of Ceramics at Alfred Univ	VMS
NYBVX1	NYU Graduate Business School	VMS
FROCF51	O.P.G.C, Clermont-Ferrand, FR	DEC VMS

PACEVM Pace Univ Pleasantville—Briarcill camp VMS
PLU Pacific Lutheran Univ VMS
IPDUNIV Padova U Comp Ctr VM/SP RE
PANAM2 Pan American Univ VMS
PANAM1 Pan American Univ VMS
PANAM1 Pan American Univ VMS
PANAM Pan American Univ VMS
PSUVALM Penn S U Comp Sci VLSI Dev UNIX BSD
PSUARCH Penn St U Arch Comp Lab VMS
PSUACL Penn St U Engr Comp Lab VMS
PSU2020 Penn St U Engr Comp Lab VMS
PSUECLC Penn St U Engr Comp Lab VMS
PSUECLA Penn St U Engr Comp Lab VMS
PSUECLB Penn St U Engr Comp Lab VMS
PSUECLB Penn St U Engr Comp Lab VMS
PSUCEMD Penn St U Engr Comp Lab VMS
PSUMEV Penn St U Engr Comp Lab VMS
PSUMEV Penn St U Engr Comp Lab VMS
PSUMEV Penn St U Engr Comp Lab VMS
PSUCHEM Penn State Applied Res Lab VMS
PSUARLB Penn State Applied Res Lab VMS
PSUARLC Penn State Applied Res Lab VMS
PSUARLA Penn State Elmnt. Particle Lab VMS
PSULEPSR Penn State Elmnt. Particle Lab VMS
PSUVAXS Penn State U UNIX BSI PSUVAXG Penn State U PSUVAXS Penn State U

PSUDG1 Penn State U

IBM VM/SP HPO R3 4

VM/SP RELEASE 5

UNIX BSD

UNIX BSD UNIX BSD AOS/VS

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REED	Reed College	BERKELEY UNIX
RCN	Regents Computer Network	NOS
	Regional Tech College Cork	VM/IS
GREARN	Research Ctr of Crete	VM/SP
RLG	Research Libraries Grp	MVS/SP
	Rhodes College CC	VMS
	RHRK Kaiserslautern	SIEMENS BS3000 MSP
	RHRK Kaiserslautern, Germany	SIEMENS BS2000
	RHRK Kaiserslautern, Germany	SIEMENS BS2000
	RHRZ Uni Bonn, Germany	IBM VM/SP HPO R4.2
	Rice U Comp Sci Dept.	VM/SP
RICE	Rice Univ ICSA	VM/SP
ITORIPTO	Ricerch e Progetti Torino	VM/SP
BGERUG51	Rijks Univ	VMS
HLERUL52	Rijksuniver Leiden Gorl Lab	VMS 4 1
RITVM	RITISC	VM/SP HPO
RITVAXA	Rochester Inst of Tech	VMS
RITVAXB	Rochester Inst of Tech	VMS
	Rochester Inst of Tech	VMS
	Rochester Inst of Tech	VMS
RITVAXN	Rochester Inst of Tech	VMS
RITVAX	Rochester Inst of Tech Rochester Inst of Tech (NTID)	VMS
RITVAXO	Rochester Inst of Tech (NTID)	VMS
	Rochester Inst of Tech.	VMS
	Rockefeller University	UNIX BSD
	Rohm & Haas Co	VM/HPO
RHIT	Rose-Hulman Inst.	VMS
	Royal Military College	CP-6
	RPI Ctr Mfg Prod	VM/SP
	RPI Graphics Center RPI Graphics Center	VM/SP VM/SP
RPITSMTS	RPI Info Tech Srvs	MTS/XA DIST 5.1C
RPITSGW	RPI Info Tech Srvs	UTX
	RRZN, Univ Hannover, Germany	CDC NOS
	RRZN, Univ Hannover, Germany	IBM VM/SP R4 0
BANRUC01	RUCA, Antwerpen, Belgium	NOS 2 5
DBORUB01	Ruhr-Univ Bochum	CDC NOS/VE
NORUNIX	RUNIT	ULTRIX 2 0
RUTHEP	Rutgers U High Energy Physics	VMS
DRACO	Rutgers Univ CCIS	VMS
RUTGERS9	Rutgers Univ CCIS MVS	MVS/SP
CANCER	Rutgers Univ CCIS VAX	VMS
ZODIAC	Rutgers Univ CCIS Vax Clust	VMS
RUTVM1	Rutgers Univ CCIS VM1	VM/SP
BIOVAX	Rutgers Univ Molecular Bio Comp Lab	VMS
DACTH01	RWTH Aachen, Germany	CDC NOS 2 4
RYERSON	Ryerson	VM/SP
DWUUNI21 YUBGSS21	RZ Uni Wuerzburg, Germany RZS SR Srbije, Yugoslavia	IBM MVS 3 8 IBM MVS/SP 1 3.8
SERVAX	S Reg Data Ctr	VMS
SERVAX	S Reg Data Ctr Tamiami Campus	OS 1100
SLUVCA	Saint Louis Univ	VMS
SALK	Salk Instit	VMS
SHSUTHOR		VMS
SHSU	Sam Houston State Univ	VMS
SHSUODIN	Sam Houston State Univ	VMS
SAMFORD	Samford Univ	VM/SP
SDSC	San Diego Supercomputer Ctr	VMS
SCU	Santa Clara Univ	VMS
HASARA11	SARA Amsterdam, Netherlands	VM/SP R4
JPNSUT50	Scienc U Tokyo Y J Coll	VM/SP
JPNSUT00	Science U of Tokyo	VM/SP
JPNSUT40	Science U of Tokyo	VM/SP
JPNSUT31	Science U of Tokyo Noda	VMS
JPNSUT10	Science U Tokyo - Japan	VM/SP
JPNSUT20	Science U Tokyo - Japan Kagurazaka	VM/SP
JPNSUT30 JPNSUT3A		VM/SP MUSIC
огиротон	betence o tokyo - uapan, noda	MOSIC

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JPNSUT01	Science Univ of Tokyo	VM/SP
	Science Univ of Tokyo ICEPP	VM/SP
DMT CCV11	CCECEN Mal Dalainm	VM/SP R4
	SCKCEN Mol Belgium	•
	Scuola Normale Superiore	DEC VMS 4 3
IPISNSIB	Scuola Normale Superiore	VM/SP
SENECA	Seneca College	VMS
KRSNUCC1	Seoul Nat'l Univ CC	VM/HPO
SETONVM		VM/SP
	Seton Hall Univ CC	VM/SP
	Setsunan Univ	VM/SP
JPNSNU20	Setsunan Univ	VM/SP
SHERCOL1	Sheridan College	VMS
	Showa Women's Univ	VM/SP
		·
	SIAM IFC, Milano, Italy	IBM VM/SP HPO 4
IMISIAM2	SIAM IFC, Milano, Italy	IBM VM/SP HPO 4
SFU	Simon Fraser U Comp Svcs	MTS
SFUVM	Simon Fraser U Comp Svcs	VM/SP
ITSSISSA	-	UNIX UTX
SKIDMORE	——————————————————————————————————————	VMS
	Skidmore College	
SLACASP	SLAC ASP Experiment	VMS
SLACVM	SLAC Computer Center	VM/SP
SLACESA	SLAC End Station A	VMS
SLACHRS	SLAC High Res Spectrometer	VMS
SLACMAC		VMS
	3	
SLACMKII		VMS
SLACM2	SLAC Mark-II Detector	VMS
SLACMK3 SLACPCR	SLAC Mark-III Detector Exp	VMS
SLACPCR	SLAC PCR	VMS
SLACSLC	SLAC SLC	VMS
SLACSLD	SLAC SLD Detector	VMS
SLACTBF		VMS
SLACTWGM	SLAC TCP/Two-Gamma Experiment	VMS
SLACUCSD	SLAC TCP/2-Gamma Expt (UCSD)	VMS
SLACTPCS		VMS
SLACPHYS	SLAC TPC/Two-Gamma Experiment	VMS
SMITH	Smith College	VMS
SIVM	Smithsonian Instit	VM/SP
TWNSCU10		, -
	Soochow Univ	VM/SP
	Soochow Univ South Dakota State Univ	VM/SP
SDSUVM	South Dakota State Univ	VM/SP VM/HPO SP
SDSUVM SEMASSU	South Dakota State Univ Southeastern Mass Univ	VM/SP VM/HPO SP VMS
SDSUVM SEMASSU SIUCVMB	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale	VM/SP VM/HPO SP VMS VM/SP
SDSUVM SEMASSU	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl	VM/SP VM/HPO SP VMS VM/SP VM/SP
SDSUVM SEMASSU SIUCVMB	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale	VM/SP VM/HPO SP VMS VM/SP
SDSUVM SEMASSU SIUCVMB SIUEVM	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP
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SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMA SMSVAXA SWTEXAS SWTTEGAN STSCI	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Space Telescope Science Instit	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VM/SP VMSP VMS VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVAXA SWTEXAS SWTTEXAS SWTTEGAN STSCI SLCSL	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Space Telescope Science Instit St. Lawrence College	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVAXA SWTEXAS SWTEXAS SWTTEGAN STSCI SLCSL STLAWU	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VM/SP VMS
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SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ St. Lawrence College St. Lawrence Univ St. Mary's U	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVAXA SWTEXAS SWTYSSA SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Stouthwest Texas State Univ Stouthwest Texas State Univ Stouthwest Texas State Univ Southwest Texas State Univ	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTEXAS SWTEXAS SWTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVAXA SWTEXAS SWTYSSA SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Usiv of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ Space Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University Stanford University State Univ System of Minnesota	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1 SFAUSTIN	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University State Univ System of Minnesota Stephen F. Austin State Univ	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1 SFAUSTIN SITVXB	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University Stanford University State Univ System of Minnesota Stephen F. Austin State Univ Stevens Inst Tech	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1 SFAUSTIN	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University Stanford University State Univ System of Minnesota Stephen F. Austin State Univ Stevens Inst Tech	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1 SFAUSTIN SITVXB	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University Stanford University State Univ System of Minnesota Stephen F. Austin State Univ Stevens Inst Tech	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS
SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA SMSVMB SMSVAXA SWTEXAS SWTTEGAN STSCI SLCSL STLAWU STMARYS STMARYTX SMCVAX SPCVXA SESTAK SSRL750 STANFORD SUSOLAR SUWATSON OBERON MSUS1 SFAUSTIN SITVXB SITVXC	South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ Southwest Missouri State Univ Southwest Missouri State Univ Southwest Texas State Univ State Telescope Science Instit St. Lawrence College St. Lawrence Univ St. Mary's U St. Mary's Univ of San Antonio St. Michael's Coll St. Peter's Co Stacken, KTH Sweden Stanford Synchrotron Rad Lab Stanford University Stanford University Stanford University Stanford University State Univ System of Minnesota Stephen F. Austin State Univ Stevens Inst Tech	VM/SP VM/HPO SP VMS VM/SP VM/SP VM/SP VM/SP VM/SP VMS

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JPNTAMA0	Tamagawa Univ	VM/SP
FINTUTA	Tampere U Tech	DEC VMS 4 2
FINTUT	Tampere University of Techn	UNIX 4 3 BSD
TAMODP	TAMU ODP	VMS
TAMAGEN	TAMU/AG Eng	VMS
TAMMVS1	TAMU/CSC	MVS/SP
TAMVM1	TAMU/CSC	VM/SP/HPO
TAMENTO	TAMU/ENTO	VMS
TAMGEOP	TAMU/GEOP	VMS
TARLETON	Tarleton State Univ - DPC	NOS
HDETUD2	Tech Hoogeschool Delft	MVS/SP 1 3.4
HDETUD5	Tech Hoogeschool Delft	VMS 4 4
		UNIX 4 2 BSD
DB0TUI6	Tech U Berlin Infor KBS	
DBSINF6	Tech U Braunschweig Info	ULTRIX
DM0TUI1S	Tech U Informatik, Muenchen	IBM VM/SP R5 06
DDADVS1	Techn Darmstadt Fachber Inform	IBM VM/SP R3
TUNS	Technical Univ of Nova Scotia	VMS
TECHCDC	Technion - CDC	NOS 2.4.3
TECHMVS	Technion - Haifa	MVS/SP
TECHNION	Technion - Haifa	IBM VM/SP HPO 4 2
TECHSEL	Technion Dept Math - Haifa	UNIX
TECHUNIX	Technion Dept of Math	UNIX BSD 4 3
TECHDPD	Technion, Haifa	MVS/JES2
HENTHT5	Technische Hogeschool Twente	VMS 4 2
DB0TUI11	Technische U Berlin	IBM VM/SP
DB0TUM11	Technische U Berlin Maschinen	IBM VM/SP
DB0TUZ01	Technische U Berlin Rechenzentrum	NOS
DB0TUS11	Technische U Berlin Schiffs	IBM VM/SP
ICSATAXA	Tecnopolis CSATA Novus Ortus	IBM MVS/XA
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TAUNIVM	Tel Aviv U Comp Ctr	IBM VM/SP HPO R4 2
TAUNOS	Tel Aviv U Comp Ctr	CDC NOS 2 5.3
TAURUS	Tel Aviv U Comp Ctr	UNIX BSD 4 2
TAUENG	Tel Aviv U Eng Sch	DEC VMS 4 2
TAUPHY	Tel Aviv Univ Nuc Phys	DEC VMS 3 7
TAUVE	Tel Aviv University	CDC NOS/VE 1 2.3
TEMPLEVM	Temple U Comp Activity	VM/SP
TMPLSUPR	Temple U Computer Activity	VM/SP
	<u> </u>	
TMPLCIS	Temple U Computer Activity	VMS
TMPLNOS	Temple University Computer Activity	NOS
TNTECH	Tennessee Tech Univ	VMS
TAMCGF	Texas A&M Engineering Graphics	VMS
TAMCBA	Texas A&M U Acad Comp Ctr	VM/SP
TAMBIGRF	Texas A&M U Biochem	VMS
TAMCHEM	Texas A&M U Chemistry Dept	VMS
TAMSTAR	Texas A&M U Comp Srvs Ctr	VMS
	<u>-</u>	
TAMVENUS	Texas A&M U Comp Srvs Ctr	VMS
TAMUNIX	Texas A&M U Computing SC	UNIX
TAMLSR	Texas A&M U CS/LSR	VMS
TAMTCSL	Texas A&M U EE-TCSL	VMS
TAMVXEE	Texas A&M U Electrical Engr	VMS
TAMNIL	Texas A&M U Learning Tech Ctr	VMS
TAMMEACA	Texas A&M U ME/CAD	VMS
TAMVXRSC	Texas A&M U MML	VMS
TAMVXOCN	Texas A&M U Oceanography Dept	VMS
TAMPHYS	Texas A&M U Physics Dept	VMS
TAMCOMP	Texas A&M Univ Cyclotron Inst	VMS
TAMSIGMA	Texas A&M Univ ECS	VMS
TAMLMSB	Texas A&M Univ LMSB	VMS
TAMTURBO	Texas A&M Univ TURBO	VMS
TCUAVM	Texas Christian Univ	VM/SP
	Texas Christian Univ	
TCUAMUS		MUSIC/SP
TCUAVMS	Texas Christian Univ	VMS
TCUBVM	Texas Christian Univ	VM/SP
TTACS1	Texas Tech U Acad Comp Srvs	VMS
TTACS2	Texas Tech U Acad Comp Srvs	VMS
TTUVM1	Texas Tech U Comp Facil	VM/SP
TTUHSCVM	Texas Tech U Health Sci Ctr	VM/HPO
DTUPEV5A	Th Astrophysik Univ Tuebingen	DEC VMS 4 3
DIOIEVJA	III TOCTOMITATE OHITA THENTHAGH	DIO ALIO A D

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HDETUD1 TH Delft, Netherlands
JPNTOHOK Tohoku Univ
                                                                                                                      VM/SP
                                                                                                                      VM/SP
 JPNTHKVX Tohoku Univ
                                                                                                                      VMS
 JPNTIU01 Tokyo Intern'tl Univ
                                                                                                                      VM/SP
 JPNTKUVM Tokyo Keizai U
JPNTKUVM Tokyo Keizai U
TOWSONVX Towson State Univ
TOWSON1 Towson State Univ
TOWSON2 Towson State Univ
TRANSY Transylvania Univ
TRENT Trent University
TSCVM Trenton State Co
TUCC Triangle U Comp Ctr
TUCCVM Triangle U Comp Ctr
TUNL Triangle Univ. Nuclear Lab
TRINCC Trinity College
TRINCC2 Trinity College
TRINITY Trinity Univ Computing Ctr
TRIUMFCL TRIUMF Research
TRIUMFRG TRIUMF Research
TRIUMFER TRIUMF Research - ERICH
DBOTUIO TU Berlin
                                                                                                                    VM/SP
                                                                                                                    VMS
                                                                                                                    VMS
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                                                                                                                   MUSIC/SP
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                                                                                                                      VM/SP
                                                                                                                     VMS 4 5
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DBOTUIO TU Berlin XEXOX

DBOPTZ1A TU Berlin VM/SP

DBOTUI62 TU Berlin Informatik SWT UNIX 4 3 BSD

DBSTU1 TU Braunschweig, RZ, Germany IBM VM/SP R4 SSI

DBSNRVO TU Braynscgweug, NRV-Gateway XOS

DCZTU1 TU Clausthal VM/SP
 HDETUD53 TU Delft
                                                                                                                     VMS 4 5
 HDETUD52 TU Delft
                                                                                                                     VMS 4 4
 HDETUD51 TU Delft
                                                                                                                    VMS V4 4
HEITHES TU Eindhoven CC, Netherlands VMS 4 5
HEITUE51 TU Eindhoven CC, Netherlands VMS 4 5
HEITUE1 TU Eindhoven CC, Netherlands VMS 4 5
HEITUE1 TU Eindhoven CC, Netherlands VM/SP
HEIIPO5 TU Eindhoven IPO, Netherlands VMS 4 5
DGATUM5P TU Muenchen Physik VMS
DBOTUI66 TUB Informatik ISTI UNIX 4 2
TUFTS Tufts U
                                                                                                                   UNIX 4 2 BSD
 TUFTS Tufts U
                                                                                                                    VMS
TULIPS Tufts Univ
TCSVM Tulane U Comp Svcs - VM
TCSMUSA Tulane U Comp Svcs Music A
TCSMVS Tulane U Comp Svcs MVS
AKRON U Akron
AKRONVM U Akron
                                                                                                                     VMS
                                                                                                                   VM/SP
                                                                                                                  MUSIC
                                                                                                                   MVS/SP
                                                                                                                   MVS/XA 2 1.7
                                                                                                                     VM/SP HPO 5
AKRONVAX U Akron ULTRIX

UABCMC U Alabama B'ham - CMC VMS

UABTUCC U Alabama Birmingham MVS/SP

UABCVSR U Alabama Birmingham VM/IS

UA1VM U Alabama Comp Ctr VM/SP HPO

UALTAMTS U Alberta Comp Svcs MTS

UALTAVM U Alberta Comp Svcs VM VM/SP

EMDUAM11 U Autonoma Madrid Ctr Calc VM/SP

EB0UB012 U Barcelona Ctr Calculo VM/SP

DBNVB12 U Bonn Chemische Inst IBM VM/SP R3 1

DBNUAMA1 U Bonn Inst Mathematik IBM VM/SP R4

DBNRHRZ1 U Bonn Reg Hochschul IBM VM/SP R5

DBNRHRZ2 U Bonn Reg Hochschulrechenzent MVS/SP

UCIPPRO U CA Irvine, Publ Policy Rsrch VM/SP

UCSFBCL U CA San Fran Biochem Lab
 AKRONVAX U Akron
                                                                                                                      ULTRIX
 UCSFBCL U CA San Fran Biochem Lab
 UCSFC255 U CA San Fran Clin Lab
 UCSFCCB U CA San Fran Comp Ctr
 UCSFCGL U CA San Fran Comp Grap Lab
 UCSFVIVO U CA San Fran Infect Lab
 UCSFMIS U CA San Fran Med Info Sci
 UCSFNMR U CA San Fran Nuc Mag Reson Lab
 UNCAACTC U Calgary A C.T. Centre
UCDASVM1 U Calgary Dept Admin Servs
UCBEAR U Calif Berkeley
                                                                                                                   MULTICS
                                                                                                                   VM/SP
                                                                                                                   UNIX BSD
 UCBDOROT U Calif Berkeley
                                                                                                                   UNIX BSD
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UNIX BSD

UCBERNIE U Calif Berkeley

		0.146.7.1.1.0	
		Calif Berkeley Campus	UNIX BSD
		Calif Berkeley Campus	ULTIX
UCIVMSA	U	Calif Irvine Comp Ctr	VMS
UCIVMSC		Calif Irvine Comp Ctr	VMS
UCLATMOS	TT	Calif LA UCLA Atmos Science	VM/SP
		Calif I as America Acad Come	·
UCLAVM	U	Calif Los Angeles Acad Comp Calif Los Angeles Acad Comp	VM/SP
UCLAMVS	U	Calif Los Angeles Acad Comp	MVS/SP
UCLAVMB	U	Calif Los Angeles Acad Comp	VM/XA SF
UCLASSCF		Calif Los Angeles Soc Sci Facil	VM/SP
UCRVMS		Calif Riverside Acad Comp Ctr	VMS
			VMS
UCKFRIS		Calif Riverside Phys Dept	
UCSFCCA	U	Calif San Fran Comp Ctr	UNIX BSD
UCSFHC	U	Calif San Fran Hosp & Clinics	VM/SP
UCSFVM		Calif San Francisco	VM/SP
SBHEP	IJ	Calif Santa Barbara	VMS
		Calif Santa Barbara Comp Ctr	VM/SP
TICCDIIVA	TT	Calif Canta Parhara Comp Ctr	•
UCSBUXA		Calif Santa Barbara Comp Ctr	BSD UNIX
UCSBUXB	U	Calif Santa Barbara Comp Ctr	BSD UNIX
UCSCMVS	U	Calif Santa Cruz CATS IBM (MVS)	MVS/XA
UCSCHU	U	Calif Santa Cruz H&A	UNIX BSD
UCSCLICK	IJ	Calif Santa Cruz Lick Obs	UNIX
UCSCA		Calif Santa Cruz Unix A	UNIX BSD
	-		
UCSCC		Calif Santa Cruz Unix C	UNIX BSD
UCSCD	U	Calif Santa Cruz Unix D	UNIX BSD
UCSCE	U	Calif Santa Cruz Unix E	UNIX BSD
UCSCF	U	Calif Santa Cruz Unix F	UNIX BSD
UCSCG	ΤT	Calif Santa Cruz Unix G	UNIX BSD
UCSCH		Calif Santa Cruz Unix H	UNIX BSD
UCSCI		Calif Santa Cruz Unix I	UNIX BSD
UCSCJ	U	Calif Santa Cruz Unix J	UNIX BSD
UCSCK	U	Calif Santa Cruz Unix K	UNIX BSD
UCSCL	IJ	Calif Santa Cruz Unix L	UNIX BSD
UCSCM		Calif Santa Cruz Unix M	UNIX BSD
UCSCVM		Calif Santa Cruz VM	VM/SP
PORTAL		Calif Santa Cruz VM	VMS
UCSCO	U	Calif Santa Cruz VM	SUN OS
UCCVMA	U	Calif System-wide Admin	VM/HPO
UCICP6	IJ	California Comptng Fac	CP6
BUCLLN11		Cath Louvain	VM/SP HPO R4 2
	-	Central Florida	, -
UCF1VM			VM/SP
UCFCS		Central Florida Comp Sci Dept	UNIX BSD
UCHIMVS1	U	Chicago Computation Ctr	MVS/SP
UCHISTEM	U	Chicago Crewe Laboratory	VM/SP
UCCCMVS		Cincinnati	MVS/SP
UCCCVM1	TT	Cincinnati	VM/SP
			·
IRUCCIBM		College Cork	VM/SP
IRLEARN		College Dublin	VM/HPO RELEASE 4
COLORADO	U	Colorado Boulder Comp Svcs	VMS
COLOPHYS	U	Colorado Boulder Physics	VMS
UCONNMVS		Connecticut	MVS
UCONNVM		Connecticut	VM/SP HPO
	-		IBM VM/SP R5
DKUCCC11		Copenhagen Comp Ctr	•
BMSUEM11		de l'Etat Belgium	VM/SP R5
BLIULG11	U	de Liege	VM/SP HPO R4 2
BLIULG12	U	de Liege	VM/SP R4
BLIULG13	IJ	de Liege Belgium	VM/SP R5
PTEARN		de Lisboa	IBM VM/SP
IPGUNIV		degli Studi di Perugia	IBM VM/SP R3
UDCVM		Dist Columbia Comp Ctr	VM/SP
UDCVAX	U	Dist Columbia VAX	VMS
DDOINF6	U	Dortmund CC Dept	UNIX 4 2 BSD
DERRZE1		Erlangen	IBM VM/SP R3
UFGATE		Florida CIRCA	VMS
UFPINE		Florida CIRCA	VMS
UFENG		Florida Col Engr	VM/SP
UFFSC		Florida Faculty Sup Ctr	VM/SP
CGEUGE52	U	Geneva	DEC VMS
HGRRUG0	U	Groningen	NOS

2

12.txt Wed Apr 26 09:43:44 2017 31 HGRRUG5 U Groningen VMS 4 2 UOGUELPH U Guelph VM/CMS VM/SP UOGVAX2 U Guelph, CIS UNIX BSD DHVMHH1 U Hannover IBM VM/SP R2 01 UHCCUX U Hawaii Comp Ctr ULTRIX UHPLATO U Hawaii Comp Ctr UHPLATO U Hawaii Comp Ctr

UHCCMVS U Hawaii Comp Ctr, Hon, USA

UHCCVM U Hawaii Comp Ctr, Hon, USA

UHCCVX U Hawaii Comp Ctr, Hon, USA

DHDTRN1 U Heidelberg Immunol Inst

FINUHCB U Helsinki Phys Comp

UHUPVM1 U Houston Comp Ctr

UHNIX1 U Houston Comp Ctr

UHNIX2 U Houston Comp Ctr

UHPCC U Houston Comp Ctr NOS UHRCC U Houston Research Comp Ctr
UHRCC2 U Houston Research Comp Ctr 2
IDUI1 U Idaho VMS VMS U Idaho VM/SP NCSAVMS U Ill Ntl Crt Sprcomp Appl
NCSAVMSA U Ill Ntl Ctr Sprcomp Appl
NCSAVMSB U Ill Ntl Ctr Sprcomp Appl
UIUCNPL U Ill- Urb-Champ Nuc Phy Lab
UICVM U Illinois Chicago VMS VMS VMS UIUCNPL U Ill- Urb-Champ Nuc Phy Lab VMS
UICVM U Illinois Chicago VM/SP
UICMVS U Illinois Chicago MVS/SP
UICPHY U Illinois Chicago VMS
UICVM2 U Illinois Chicago VM/SP
UICVMC U illinois Chicago AISS/ACC VM/SP
UICMVSA U Illinois Chicago AISS/ACC MVS/XA 2.1.5
UIUCMRL U Illinois Comp Ctr VMS
UIUCHEPA U Illinois High Energy Physics VMS
UIUCHEPB U Illinois High Energy Physics VMS
UIUCVME U Illinois Urbana-Cham Comp Svcs VM/SP
UITAMVS U Iowa MVS/SP VMS UIAMVS U Iowa UIAECE U Iowa MVS/SP UNIX BSD UIAPRB U Iowa UKANVM U Kansas Comp Srvs PRIMOS UKANVM U Kansas Comp Srvs

UKANMED U Kansas Med Ctr Dpt Info Sys

DKAKFK51 U Karlsruhe Rechenzentrum

DKAUNI14 U Karlsruhe Rechenzentrum

UKCC U Kentucky Comp Ctr

UKCCB U Kentucky Comp Ctr

UKCCS U Kentucky Comp Ctr

UKWANG U Kentucky DP Ctr

UKMA U Kentucky Math Sci

DKIUNIO U Kiel

LAVALVM2 U Laval

HLERUL53 U Leiden

HLERUL2 U Leiden VM/SP VM/SP VMS IBM VM/SP R4 VM/SP VM/SP VM/SP HPO WANG VS UNIX BSD TOPS-10 VM/SP VMS 4 5 HLERUL2 U Leiden HLERUL5 U Leiden MVS/SP 1 3 VMS 4 1 HLERUL51 U Leiden VMS 4 1 HLERUL54 U Leiden Medical Infor VMS 4 1 ULKYVM U Louisville Ctrl Comp
ULKYVX02 U Louisville VAX Cluster
ULKYVX04 U Louisville VAX Cluster
ULKYVX05 U Louisville VAX Cluster
ULKYVX03 U Louisville VAX Cluster
ULKYVX06 U Louisville VAX Cluster
ULKYVX07 U Louisville VAX Cluster
MECAN1 U Maine Computer Appl Network
MAINE U Maine Computing Center
PORTLAND U Maine Portland Comp Ctr
UOFMCC U Manitoba Comp Ctr
UOFMCCX U Manitoba Comp Ctr
DMARUM8 U Mannheim
UMDARS U Maryland Collogs D: 5 HMARL5 U Limburg
ULKYVM U Louisville Ctrl Comp VMS 4 VM/SP VMS VMS VMS VMS VMS VMS VMS VM/SP VM/SP VM SIEMENS BS2000 UMDARS U Maryland College Pk ARS Lab VMS
UMDARS1 U Maryland College Pk ARS1 Lab VMS
UMCINCOM U Maryland College Pk Comp Sci Ctr VMS
UMDB U Maryland College Pk Comp Sci Ctr VM/SP

IZ.CAC	Wed Apr 20 09.43.44 2017 32	
UMDC	U Maryland College Pk Comp Sci Ctr	VM/SP
UMDT	U Maryland College Pk Comp Sci Ctr	VM/SP
UMD2	U Maryland College Pk Comp Sci Ctr	OS 1100
UMBC1	U Maryland Comp Info Serv	VMS
UMDACC	U Maryland Computer Admin Compt Ctr.	VM/SP
UMDD	U Maryland Computer Science Ctr	VM/SP
UMES	U Maryland Eastern Shore	VM/SP
UMDENP	U Maryland Experimental Nuclear Phys	VMS
UMDHEP	U Maryland High Energy Physics	VMS
UMAB	U Maryland Medical School U Maryland U College	VM/SP VM/SP
UMUC UMASSVM	U Mass Sch of Engineering	VM/SP VM/SP
UMASSVM	U Massachusetts at Amherst	NOS 2.5.2
DGOGWD01	U Max-Planck-Ges Goettingen	OS 1100
UMICHUB	3	MTS
UMICHUM	U Mich Comp Ctr.	MTS
UMDSCVM	U Mich Data Sys Ctr VM	VM/SP
UMDSCXA	U Mich Data Sys Ctr XA	MVS/XA 2.2
UMIPHYS	U Mich HEP	VMS
UMINN1	U Minnesota St. Paul Comp Ctr	VM/SP
UMMVSA	U Missouri Central Facil	MVS/SP
UMVMA	U Missouri Central Facil	VM/SP
UMCVMB	U Missouri Columbia	VM/HPO
UMCECN01	U Missouri Columbia	VMS
UMCCSL1	U Missouri Columbia Campus - CC	VMS
UMKCVAX1	<u> </u>	VMS
UMKCVAX2	U Missouri Kansas City	VMS
UMRVMC	U Missouri Rolla	VM/SP
UMRVMA	U Missouri Rolla Campus	VM/SP
UMRVMB	U Missouri Rolla Campus	VM/HPO5
UMRUNIXA UMSLVMA	U Missouri Rolla Campus U Missouri St. Louis Campus	BSD 4.3 VM/SP
UMSLVMA		VM/SP VM/SP
UMSLVAXA	_	VMS
UMKCVAX3	U Missouri Truman	VMS
UDEM	U Moncton	MPE V
UNCCHEM	U N Carolina ACS	VMS
UNCVM1	U N Carolina ACS	VM/SP
UNCVX1	U N Carolina ACS	VMS
UNCSPHV3	U N Carolina Sch Publ Health	VMS
UNCSPHVX	U N Carolina Sch Publ Health	VMS
UNCSPHV2	U N Carolina Sch Publ Health	VMS
UNLARS	U Nebr-Lincoln Agric Res Srv	VMS
UNLAMC	U Nebr-Lincoln Amer Math Comp.	VMS
UNLASVAX		VMS
UNLVAX4	U Nebr-Lincoln CALMIT Lab	VMS
UNLCDC2	U Nebr-Lincoln Comp Res Ctr	NOS/VE
UNLVAX1	U Nebr-Lincoln Comp Res Ctr	VMS
UNLENVAX UNLVAX3	U Nebr-Lincoln Eng. Coll U Nebr-Lincoln Eng. Coll	VMS VMS
UNLPDVAX		VMS
UNLTCVAX	<u> </u>	VMS VMS
UNLADVAX	U Nebr-Lincoln VP Acad. Affairs	VMS
UNLVM	U Nebraska Comp Svcs	VM/SP/HPO
UNLCDC3	U Nebraska Lincoln Comp Ctr	NOS
UNBMVS1	U New Brunswick	MVS/XA
UNBVM1	U New Brunswick	VM/SP 5
UNMB	U New Mexico Comp Ctr	VMS
UNFVM	U North Florida Comp Svcs	VM/SP
IRISHMVS	U Notre Dame Comp Ctr	MVS/SP
UNDHEP	U Notre Dame High Ener Phys	VMS
IRISHVM	U Notre Dame PC Lab	VM/SP
IRISHVM2	U Notre Dame PC Lab	VM/SP
IRISHVX2	U Notre Dame Physics Dept	VMS
NDRADLAB	U Notre Dame Radiation Lab	VMS
ALASKA	U of Alaska Comp Net	VMS
BANUIA51 ARIZVM1	U of Antwerp U of Arizona CCIT IBM	VMS VM
	O OI AIIZONA COII IDM	A T.T

12.txt	Wed Apr 26 09:43:44 2017	33	
-	U of Arizona CCIT VAX		VMS
	U of Arizona CCIT VAX		VMS
	U of BC Admin System U of California San Francisco		MTS ULTRIX 32M
	U of California San Francisco		ULTRIX 32M
	U of California San Francisco		UNIX
	U of Groningen		VMS 4 2
	U of KY Agri Data Ctr		VM/SP
CCOL	U of Ky Community Colleges		VM/SP
	U of Leiden DIOS		VMS 4 2
	U of Leiden DIOS		VMS
	U of Maryland		VMS
	U of NC Gen'l Admin Cent Office - E U of O CC	saucat.	VM/SP
	U of Ottawa Elec Eng		VM/SP VMS
	U of T DAIS		VMS
	U of Tennessee		VMS
UTKVX3	U of Tennessee Computing Center		VMS
WATLAGER	U of Waterloo, EERC		VMS
WISCAGE	U of Wis, Inst on Aging		VMS
DOLUNI1			IBM VM/SP R4
DOSUNI	U Osnabrueck		CGK BS 3
UOTTAWA UOTCSI1	U Ottawa Computer Ctr		VM/HPO
UOTCSI1	U Ottawa Computer Sci Dept U Ottawa Computer Sci Dept		UNIX UNIX
UOTADM01	U Ottawa Faculty of Admin		VMS
IPACUC	U Palermo		VM/SP
PENNDRLN	U Penn DRL Comp Facil		VM/SP
PENNDRLS	U Penn DRL Comp Facil		VM/SP HPO
	U Penn Matter Lab		VMS
PENNHEP1	U Penn Physics		VMS
PITTVMS	U Pittsburgh Comp Info Sys		VMS
	U Pittsburgh Comp Info Sys U Poli Madrid Ctr Calc		ULTRIX IBM VM/SP R4
	U Prince Edward Island		VMS
UQAM	U Ouebec Montreal		VM/SP
UREGINA1	U Regina		VM/SP
UREGINAV	U Regina		VMS 4 5
UREGINA2	U Regina Dept Comp Services		UNIX BSD
UORCHEM	U Rochester Chemistry VAX		VMS
UORVM UORDB2	U Rochester Comp Ctr U Rochester Comp Ctr		VM/SP VMS
UORHBV	U Rochester Comp Ctr		VMS
UORJVN	U Rochester Comp Ctr		VMS
UORKV	U Rochester Comp Ctr		VMS
UORKV2	U Rochester Comp Ctr		VMS
UORMVS	U Rochester Comp Ctr		MVS/SP
UORUNIX	U Rochester Comp Ctr		UNIX BSD
UORDBV	U Rochester Computing Ctr		VMS
UORGSM UORHEP	U Rochester Grad Sch Mngmnt U Rochester High Energy Physics		VM/SP VMS
UOROPT	U Rochester Institue of Optics		VMS
SASK	U Saskatchewan		DEC VMS 4 7
BAGAMCOK	U South Carolina Bus College		VM/SP
UNIVSCVM	U South Carolina Comp Svcs		VM/SP
KYLARA	U Southern Calif		VMS
MIRRIM	U Southern Calif		VMS
ZAPHOD	U Southern Calif		VMS
GEO BMSR	U Southern Calif U Southern Calif Biomed Simul Res		VMS VMS
RAMOTH	U Southern Calif Chemistry Dept		VMS VMS
JAXOM	U Southern Calif Eng Dept		VMS
MOUSE	U Southern Calif Eng Dept		VMS
PERN	U Southern Calif Engineering Sch		VMS
SC	U Southern Calif Engineering Sch		VMS
USCVM	U Southern California		VM/HPO
USMVAX DS0RUS1I	U Southern Maine Portland Comp Ctr		UNIX
DOUKUSII	U Stuttgart		IBM VM/SP R2 1

IBM VM/SP R2 1

WINDSOR1 U Windsor
WISCPSLB U Wisconsin Dept Physics
WISCMAC1 U Wisconsin Madison Comp Ctr
WISCPSLA U Wisconsin Phys Sci Lab
WISCPSLC U Wisconsin Physical Sci Lab VMS VMS VMS VMS DW0URZ0 U Wuppertal HRZ CDC NOS 2 3 WYOCDC1 U Wyoming NOS

FRUTC51 U.T.C. Compiegne, France DEC VMS
DHDUB1 UB Heidelberg, Germany IBM VM/SP R4
UCLASAUP UCLA - Arch and Urban Plng VM/SP
UCLACH UCLA Chem Dept. VMS

UCLASAUP UCLA - Arch and orban 111,

UCLACH UCLA Chem Dept.

UCLAUE UCLA Crystallog. Res.

UCLASTRO UCLA Department of Astronomy

UCLAPH UCLA Dept. of Physics

UCLAHEP UCLA High Energy Physics

UCLAIEPI UCLA IE Physics

UCLAIEPI UCLA IE Physics

UWYO U Wyoming

DHBRRZ41 U. Bremen

UCLASP UCLA Space & Plasma Physics VMS
UCLASS UCLA Space & Plasma Physics VMS
UCLASS UCLA Space Science VMS
SBITP UCSB Inst Theor Physics VMS
UCSFCOPE UCSF Clinic for Lab Medicine ULTRI:
BANUFS11 UFSIA, Antwerpen, Belgium VM/SP
BANUIA52 UIA Antwerpen VMS 4
UIUCVMC UIUC - ENGR VM/SP
UIUCVMD UIUC _ CSO VM/SP

BBRBFU01 ULB/VUB
BLIULG14 ULG, Liege, Belgium
BLIULG15 ULG, Liege, Belgium
SEUMDC51 UMDAC Umea, Sweden
GRATHUN1 UNATH, ATHENS, GREECE

UNC UNC Comp Ctr
UNCCVM UNCC Compt. Srvs. VM

GRATHUNI UNATH, ATHENS, GREECE NOS 2 5.2 (678/670)
UNC UNC COMP Ctr MVS/SP
UNCCVM UNCC Compt. Srvs. VM VM/SP
GRCRUN11 UNCR Heraklion, Crete, Greece VM/SP
GRCRUN11 UNCR, Heraklion, Crete, Greece VM/SP
GRCRUN12 UNCR, Heraklion, Crete, Greece VM/SP
GRCRUN13 UNCR, Heraklion, Crete, Greece VM/SP
DERDESS UNI Bayreuth RZ, Germany DEC VMS 4 6
DERDESS Uni Erlangen VMS
DERDESS Uni Erlangen VMS
DFRRUF1 UNI Freiburg, Germany DEC VMS 4 5
DHDURZ1 UNI Heidelberg IBM VM/SP R5
DHDURZ1 UNI Karlsruhe
DKAUNIOT UNI Karlsruhe (IFF), Germany DEC VMS 4 5
DKAUNIOT UNI Karlsruhe (IFF), Germany PRIMOS REV. 20.0.4
DKAUNIOT UNI Karlsruhe (IRA), Germany UNIX 4 3 BSD
DKAUNIOT UNI Karlsruhe, Telematik IBM VM/SP R3
DMZUK1 UNI Klinik Mainz, Germany IBM VM/SP R5
DKNKURZ1 UNI Koeln, Germany IBM VM/SP R5
HLERUL57 UNI Leiden VMS 4 5
HLERUL58 UNI Leiden, Netherlands VMS 4 5
HLERUL59 UNI Leiden, Netherlands VMS 4 5
HLERUL51 UNI Leiden, Netherlands SUN OS 3 5
DMSWWUOX UNI Muenster, Germany IBM IX/370
DMSWWUOX UNI Muenster, Germany IBM IX/370
DMSWWUOX UNI Muenster, Kernphysik VMS
HROEUR1 UNI ROTterdam, Netherlands VMS 4
CSGHSG52 UNI St Gallen, Switzerland DEC VMS
DSGNRS54 UNI Stuttgart, Germany DEC VMS 4 6
DSGNRS55 UNI Stuttgart, Germany DEC VMS 4 5
DSGNRS54 UNI Stuttgart, Germany DEC VMS 4 5
DSGNRS55 UNI Stuttgart, Germany DEC VMS 4 5
DSGNRS54 UNI Stuttgart, Germany DEC VMS 4 5
DSGNRS55 UNI Stuttgart, Germany DEC VMS 4 6
DSGNRS55 UNI Stuttgart, Ge

HUTRUU52 Uni Utrecht, Netherlands

VM/SP

VMS

SIEMENS BS3000 MSP 20

VMS VMS VMS VMS VMS ULTRIX VMS 4 5

NOS VM/SP R5 VM/SP R5 DEC VMS

NOS 2 5.2 (678/670)

MVS/SP

VMS 4 6

DEC VMS

CGEUGE54 Univ of Geneva

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UGACDC1	Univ of	Georgia	NOS
UGA		Georgia	VM/SP
UGABUS	Univ of	Georgia	VM/SP
UGAMUSIC		Georgia	MUSIC/SP
UGAXA		Georgia	VM/XA/SF
CCQC		Georgia	VM/SP
SREL		Georgia	VMS
TIFTON		Georgia Coastal Plains Exp	
GRIFFIN HARTFORD		Georgia Experiment Station Hartford	VM/SP VMS
UHHEPG		Hawaii High Enrgy Phys Grp	VMS
FINUHB		Helsinki	VMS
ISEARN		Iceland	VM/SP
IDCSVAX	Univ of	Idaho	VMS
UIUCSCS	Univ of	Illinois Chemistry	VMS
UICBAL	Univ of	E Illinois Chicago Biomolec A	naly LaVMS
UKANVAX		Kansas VAX Sys	VMS
UKPR		Kentucky Prim	PRIMOS
FINKUO		Kuopio	VMS
CLSUNI51		Lausanne	DEC VMS
UMBSKY	-	Mass at Boston	VMS
UMBMAP UMAECS		Mass at Boston Mass, Eng. Comp Svrs	VMS VMS
UMBC2		MD, Baltimore Co	VMS
UMNACVX		Minnesota Acad Comptng	VMS
UMNACBR		Minnesota Acad Comptng	VMS
UMNACCA		Minnesota Acad Comptng	NOS
UMNACUX		Minnesota Acad Comptng	UMAX 4.2
UMNADMIN		Minnesota Admin Info Svcs	MVS
UMNDUL	Univ of	Minnesota Duluth	VMS
UMNHCS		Minnesota Health Comp Sci	VMS
UMNHSNOS		Minnesota Health Sci Cmptng	
UMNHSNVE		Minnesota Health Sci Cmptng	
UMNMOR	-	Minnesota Morris	VMS
SIMVAX UMNSOM	-	Minnesota Sim Resource Minnesota, Sch of Mgmt	VMS VM/SP
UMSVM		Minnesota, sen of Mgmc Mississippi	VM/SP VM/SP
UMSMVS		Mississippi	MVS/SP
UMSNOS		Mississippi	NOS
UMSVSOS		Mississippi	VSOS
UMSPHY	Univ of	Mississippi	VMS
UNMCVM	Univ of	Nebraska Med Ctr	VM/HPO
UNOMA1		Nebraska Omaha CC	VMS
UNOMA2		Nebraska Omaha CC	VMS
UNEV		Nevada Sys CC New Brunswick	NOS
UNB UNHH	-	New Hampshire	MVS/XA VMS
UNCVAX1		New nampshile North Carolina CH	VMS
UNCG		North Carolina Greensboro A	
UNTVM1		North Texas Comp Ctr	VM/SP
UNTMUSIC		North Texas MUSIC	
NTSUVAXA	Univ of	North Texas VAX A	VMS
NTSUVAXB		North Texas VAX B	VMS
UOKMVSA		Oklahoma Norman	MVS/XA-JES2
UOREGON		Oregon Dept. Comp. & Info S	
UONEURO		Oregon Inst. of Neurosci VA	
UOXRAY		Oregon Molecular Bio VAX	VMS
OREGON UOTADM02		Oregon VAX 8800 Ottawa	VMS
UPRENET		Puerto Rico Ed Net	VMS
URVAX		Richmond	VMS
UORNSRL		Rochester	VMS
SCRANTON	Univ of	Scranton Comp Ctr	VMS
SCRVMSYS		Scranton Comp Ctr	VM/SP
UDESVM		Sherbrooke	VM/SP 4
UDESMA		Sherbrooke	
UDESMB		Sherbrooke	77M / OTD
OSCUTHAL	OIITA 01	South Alabama	VM/SP

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WCU	West Chester Univ of PA	VM/HPO
WVNMVS	West Virginia Network	MVS/XA
WVNVAXA	West Virginia Network	VMS
WVNVAXB	West Virginia Network	VMS
WVNVM	West Virginia Network	VM/SP
WVNSVC WVNVMS	West Virginia Network West Virginia Network	VMS VMS
WVNET	West Virginia Network West Virginia Network	VMS
DMSWWU1A	Westfael Wilhelms-U Muenster	IBM VM/SP HPO R5 0
DMSWWU2B	Westfael Wilhelms-U Muenster	IBM MVS/SP 1 3.5
TWSUVM	Wichita State Univ CC	VM/SP
WLUCP6	Wilfred Laurier Univ	CP-6
WILLIAMA	Williams College CC	VMS
WILLIAMB	2	VMS
	Williams College Comp Ctr	VMS
DGOWISO1	WISO-RZ Uni Goettingen, Germany	IBM VM/IS R5
WPI	Worcester Poly Tech EE	ULTRIX
IBRDVM1 WSU	World Bank Wright State Univ	VM/HPO VMS
AWIWUW11	WU-Wien	IBM VM/SP HPO R4 2
WVNBSC	WVNET - Bluefield St Col	VMS
WVNCC	WVNET - Concord Col	VMS
WVNFSC	WVNET - Fairmont St Col	VMS
WVNGSC	WVNET - Glenville St Col	VMS
WVNNCC	WVNET - Northern Comm. Col	VMS
WVNPCC	WVNET - Parkersburg Comm. Col	VMS
WVNPSC	WVNET - Potomac State Col	VMS
WVNSC	WVNET - Shepherd Col	VMS
WVNSCC	WVNET - Southern Comm Col	VMS
WVNWLSC	WVNET - West Liberty St. Col WVNET - West VA Instit of Tech	VMS
WVNWVIT WVNWVSOM	WVNET - West VA Instit of Tech WVNET - West VA Sch of Osteopathic Med	VMS VMS
WVNWVSCM	WVNET - West VA Sch of Osteopathic Red WVNET - West Virginia St Col	VMS
XAVIER	Xavier Univ Acad Comp Ctr	VMS
YALEMED	Yale Med Sch - Biomedical Comp Unit	VMS
YALEADS	Yale U Admin Data Svcs	VM/SP/HPO
YALASTRO	Yale U Astronomy Dept	VMS
YALECS	Yale U Comp Sci Dept	UNIX
YALEMVS	Yale U Computer Ctr	MVS/SP
YALEVM	Yale U Computer Ctr	VM/SP/HPO
YALEVMS	Yale U Computer Ctr	VMS
YALPH2	Yale U HEP2	VMS
YALEHEP YALEZEUS	Yale U Physics Lab Yale Univ Med Sch	VMS VMS
TRYILDIZ	Yildiz Univ	VM/SP R3
YUORION	York U Admin Stud Environ Sci	VMS
YUSOL	York U Comp Sci Fac Sci	VMS
YUYETTI	York U Comp Sci Research	UNIX BSD
YULIBRA	York U Computing Services	VMS
YUVULCAN	York U Glendon Coll	VMS
YORKVM1	York University	VM/SP
YORKVM2	York University	VM/SP
YUGEMINI	York University	VMS
YUVENUS	York University	VMS
YSUA	Youngstown State Univ	MVS/SP VM/SP
YSUB DTUZDV5A	Youngstown State Univ ZDV U Tuebingen	VM/SP VMS
DK0ZDVJA	Zentralarch Sozialfors Koeln	VM/SP
CZHRZU1A		IBM VM/SP
CZHRZU2B		IBM MVS/SP
	PENDING NODES AS OF 10/05	
	TOTAL NODES = 3	

Node	Site	System
MHC RADFORD	Mount Holyoke Coll Radford Univ	ULTRIX AOS/VS

12.txt

Wed Apr 26 09:43:44 2017 42 WWU Western Washington Univ

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-=+^ Phrack World News ^+=-

Issue Five/Part 5

Compiled and Written By

Knight Lightning

Daniel Zigmond: Real Reporter or Freelance FED?

May 20, 1986

This article in no way endorses one view over the other, but will try to look at evidence and facts pertaining to both of the above statements.

Daniel Zigmond; Wants to write an article on hackers and phreaks, our general social atmosphere, and our side of the story. He IS a contributing editor on the staff of Amiga World Magazine and he has lived at 6735 Forest Glen Road, Squrill Hill, Penn. and had the phone numbers (412)422-1979/7515 for at least 3 years. Reportedly he has accounts on ARPAnet, Private Sector, and Byte Magazine BBS.

He has been on several conferences and been talking to several phreaks across the nation. To name a few: Blue Buccaneer, Cap/N/Crax, Compu-Phreak, Dark Cavalier, Dead Lord, Final Impulse, Holophax Phreaker, Knight Lightning, Ninja NYC, Scan Man, Sigmund Fraud, Slave Driver, The Bootleg, The Clashmaster, The Infiltrator, The Firelord, The Seker, and TUC.

He tapes all his conversations and has tried to get people to call other phreaks on 3-ways in attempts to gain their phone numbers. He did however make some attempts to help Sigmund Fraud after his near bust (see story in this issue).

There are a few extremely odd things about Mr. Zigmond.

1. He wants everyone to send him their codes, extenders, PBXs, diverters, etc. Even if they no longer work. When asked why, he answered that he needed something to show his boss so he wouldn't be turned down because of what would seem to be a b.s. article.

Why doesn't he just make things up? After all he said that the stuff didn't have to be good. His reply to that was that his boss might check a few. Well if they were dead codes or PBXs or whatever then he would be up the creek anyway.

Ok, forgetting about that for a moment, Zigmond also asked that people photocopy their notebooks and send those copies to him and that he would pay the postage and for the photocopies. This of course means he gets your address and at the very least your township and such (that is if you don't leave a return address) from the postmark.

2. He has refused to give out a phone number to reach him at work or at Amiga World. Furthermore, he doesn't plan to have the article in Amiga World, but rather, he has stated that it would be sold to the Washington Post.

Now I talked with people at the Washington Post and they know nothing about this. I spoke with people in several different areas and turned a blank. They didn't even know who Zigmond was.

This leaves 2 possibilities. He either never really had any intention of submitting this article to them or was just sort of running with the mouth in search of glory and attention.

- 3. A PBX that Sigmund Fraud had found while hacking in a UNIX was given to Zigmond. It had never been used before, with the exception of a single conference to test it out, and within a week of giving it to Zigmond it was gone.
- 4. Another biggie is that Zigmond claims that by the time he submits this article in August 1986 (to wherever) that if he gets \$900 for it, he would break even. He is saying this from his phone bills and other expenses on the article.

Now only breaking even after all that time, work, and effort seems a bit worthless to me, why would he do it? You know, they say that fed informants get paid very well, not that I am suggesting that Zigmond is a fed informant.

Some other stuff that may be interesting to know is that Zigmond insists that he will be getting accounts to Metal Shop Private and Stronghold East when Taran King and Slave Driver have given very strong "no"s. He goes around telling this to people. His phone answering machine gives you less than ten seconds to leave a message, this is perhaps to prevent hacking, but nevertheless annoying.

Now please everyone take this file in the way it was intended. This is not saying that Daniel Zigmond is helping the feds, he may be completely interested and wanting to learn about our society. From this I gather that he will learn that in the phreak community we try to protect each other from getting busted and that a reporter like him could literally destroy the phreak world if he was working with the feds and left unquestioned and unchecked.

This article is a warning to all who may contact Zigmond to use your own good judgement in dealing with him. I'm sure that once he answers the questions raised in this article then everything will be alright.

The only other thing I wanted to say is that in general reporters have hurt the

The only other thing I wanted to say is that in general reporters have hurt the phreak/hack world tremendously in the past. They bring too much attention to the phreaks and bring us into the public eye. As a result there has been much more legislation creating news laws against us. Some examples are evident in this very issue of PWN. Blue Buccaneer points out all sorts of things in the new hacking laws article. Remember the new laws about sysops being responsible for the boards? Did you see how that was used in the Teltec busts? It getting incredibly dangerous out there friends, lets try not to make it any worse.

:Knight Lightning

Defeat Richard Proctor In 4 Easy Steps!

June 10, 1986

Who is this new investigator Atlanta? What makes him today's newest and possibly greatest threat to the phreak world? The following information concerns an MCI investigator named Richard Proctor, alias; John Proctor.

Richard Proctor, who also introduces himself to others as John Proctor, is one of the various MCI investigators that now lurk the nation. He is in charge of most of MCI's security/investigation divisions, and is in charge of running the southeast, east coast, and northeast MCI Investigations. He has also been involved with phreaks in the midwest and southwest.

I am not sure of the extent of his "jurisdiction," but all users of MCI should be careful no matter where they are located. Holophax Phreaker and The Infiltrator can personally tell you how he runs the MCI Investigations as they have been under investigation twice to date. Holophax Phreaker is currently still under investigation by Proctor and even by his own local Bell Operating Company (BOC).

The first thing most investigators would do when they find an access code has been abused is to wait until it has a large bill to act upon it (which may

never happen). This is because it is unprofitable to the long distance service to try to find and prosecute a person who has made less than \$500.00 worth of calls (depending on the LD service).

Richard Proctor is a very different case. As soon as he finds an access code is being abused, he will take immediate action. The following is the series of events which will take place once Proctor discovers an abused account.

In the following steps, "you" are the phreaker in question that was making the calls (heaven forbid). The steps listed are for both "you" and the person(s) receiving the illegally made phone calls.

- Step 1: Proctor will personally call *EVERY* destination number on the account and ask for information on who called them on the date(s) the call(s) were made. If it is a bulletin board, he will contact the sysop by voice or if there is no voice number available, he will send one or more investigators from the nearest MCI Investigations Department to question the sysop. He will ask them for information pertaining to the phreaker. Hopefully, your amnesiac friends will somehow forget all about you and be able to tell Proctor nothing.
- Step 2: Proctor waits a couple of days, then he again contacts the person(s) that received calls and says that he has found you and that you have told him that the people "you" had been speaking with also made those calls and that the Proctor will bust the person(s) who were called unless they would like to pay for the calls. (If this part pertains to you, that is if you were the one who received calls and Proctor or any agent said this then, at this point you should contact an attorney as this is telephone harassment, a federal crime committed over an interstate communications carrier, and you could sue MCI or whichever company it involved).
- Step 3: If some of the person(s) called by you weren't as amnesiac as you would have liked when Proctor spoke to them and then Proctor calls you or your parents, then you should deny everything that Proctor accuses you of, no matter how many people he says turned you in. Proctor will be lying (one hopes) so deny everything.
- Step 4: Proctor will call you again in a couple of days and tell you that you have one last chance to turn yourself in. When you say no again, Proctor will try to scare you by telling you that MCI is going to make an example of you and prosecute to the fullest extent. If Proctor does this, then you know he has no evidence on you or at most, circumstantial evidence.

You might get a couple of calls after that. Keep denying it and make sure you drop out of phreaking for approximately 1 1/2 - 2 months. If you get a call from your local phone company then drop out for at least 6 months to a year. They will most likely put a pen register or a DNR on your line.

Proctor has PhDs in Psychology and Criminal Psychology so be very careful! He can't do anything to you if you follow the above guidelines unless he had a trace put on the account you were using. If that is the case, then he will show up at your door arrest you. Your best bet is to stay away from it entirely. Proctor's home phone is unlisted (of course), but his office number can be obtained from any MCI operator.

> Information Provided by Holophax Phreaker and The Infiltrator

Quick Notes

Stronghold East is now running on a new Apple //e thanks to their friends at AMEX. They formally ran SE off of a Franklin Ace. May 3, 1986 Most recently the hard drive at SE crashed and until they acquire the new ProDos Apple net, they will be running Phlash-Net written by Phlash Gordon.

Rumor has it that the Apple Wizard was busted for dealing and using coke.

A guy named the CPTN was busted in Nevada for something pertaining to the Captain Midnight incident. He was also busted for carding and was caught with illegally obtained modems.

Info by Death Angel.

A member of the Underworld Elite, run by Night Stalker, got busted for calling the White House and making a bomb threat. The Secret Service came to his house and they knew he used illegal extenders to make the calls. This user decided to give them the number and his passwords to the Underworld Elite. He was deleted.

Info by Night Stalker, 5/11/86...The Underworld (216)356-9464

Telenet Bob was busted. The full story appeared in the April issue of 2600 Magazine. Nineteen year old from New Jersey. Name Robert Davenport. \$500 fine, \$890 restitution to AT&T. Info by Sally Ride:::Space Cadet

Bad Boy In Black has given up BBSing and Phreaking (for the most part) so you probably won't be hearing from him again. He claims he has gotten bored of BBSing and have had little time since the summer is rolling around. Therefore, he decided to give it up all together. Info by [bad boy in black] 5/11/86

Shooting Shark has also left the phreak world for the more or less same reasons plus the fact that he is going to college. Info by Shooting Shark.

In Texas, some cop was running a bbs called the Tunnel. No one was busted, but names and handles of those posting illegal codes were collected. The cop has received several death threats.

The Slayer was busted on April 25, 1986. Reportedly he was visited by agents from Metrophone, MCI, New Jersey Bell, and the FBI. His bust concerned Metro abuse. The Godfather, in Rhode Island, was also linked to this bust as well and as of now has quite the phreak world, but no further information is available on that. Most recently it has been discovered that the Slayer has been hired as a TSPS operator.

More news on The Sprinter here; after all was said and done, Sprinter plea bargained (as expected) and plead guilty to the charges. He spent 14 days in jail, has a \$2000 fine, 2 years probation, 200 hours community service, and of course those lawyer costs. He at this point has not accepted a job with MicroSoft.

Info by Jester Sluggo.

It has been reported that The Mentor and Crustaceo Mutoid are now writing for a newsletter in California called The Underground Informer.

The Arabian Knight was busted for conferencing.

The Guardian Demon (215) was apparently busted for Metrophone abuse, but formal charges have not been brought forth.

Jester Sluggo has officially retired from all board calling and is now into straight hacking. He will maintain his contacts in the phreak world. Sysops are asked to remove his accounts.

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