==Phrack Inc.==

Volume One, Issue Six, Phile 1 of 13

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)
- 2 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)
- 8 Wide Area Networks by Jester Sluggo (10k)
- 9-13 Phrack World News by Knight Lightning (16,15,15,16,15K)

==Phrack Inc.==

Volume One, Issue Six, Phile 10 of 13

-=+^ 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."

(This wasn't the full article, just the important part)

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 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

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East before the MASSIVE purge several months ago.

password information from Sigmund. It is believed that Meola was on Stronghold

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

==Phrack Inc.==

Volume One, Issue Six, Phile 11 of 13

-=+^ 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...

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,

phrack6/11.txt Fri Jul 01 13:24:49 2022 5

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

==Phrack Inc.==

Volume One, Issue Six, Phile 12 of 13

-=+^ 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 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

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)

A few notes: It is my assumption that Music Major's Carding Tutorial was 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.

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

Node	Site	System	
DOCCRC		OS CP6	
UNCACDC			
UNCAMULT			
EWC	A culture male Obelle (AMO)	VMS	
DKATS11	, ,	IBM VM/SP R4 IBM VM/SP R4	
DKAAUCHE	Aarhus Tekniske Skole, Denmark 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	3	VMS	
ALCANKTN		VMS	
FINALKO	Alloghamy Col	IBM MVS/XA	
ALLEGVM EB0UAB51		VM/SP DEC VMS	
APSEDOFF		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	<u> </u>	IBM VM/SP R5	
ANNENRES	3	UNIX	
APPSTATE	11	VMS	
ANLCMT ANLCHM	Argonne Chemical Tech Div Argonne Chemistry Division	VMS 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 Argonne Nat Lab Elec Div	OASYS	
ANLEL ANLEES	Argonne Nat Lab Ener & Environ	VMS 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	Argonne National Lab Cluster VAX	VMS	
ANLEMC	Argonne National Lab Electron Mic Ctr	VMS	
ANLVG	Argonne National Lab VAX Gateway	VMS	
ANLPHY ANLPNS	Argonne Physics Division Argonne Pulsed Neutron Src Proj	VMS VMS	
ASUIC	Arizona St U Info Ctr	VM/SP	
ASUCP1	Arizona State - U Chem/Phys/Solid State S		
ASUACAD	Arizona State U	VM/SP	
ASUERC	Arizona State U Eng Comp Ctr	VM/HPO	
ASUCP2	Arizona State U Lib Arts & Sci Res Cmpt B	FaVMS	
ASUACVAX		VMS	
FRIHAP31	Assistance Publique	IBM MVS/SP	
ACMVM	Assoc Computing Machinery	VM/SP	
AUDUCVAX	Auburn Univ Austria EARN	VMS VM/SP	
AEARN 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	UNIX BSD 4 2	

phrack6/12	2.txt Fri Jul 01 13:24:49 2022	6
BAYLOR	Baylor Univ	VMS
BAYLRHSB	Baylor Univ HSB	VM/IS
BCIT	BCIT Computer Resources	VM/HPO
BCSC02	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 CBEBDA3T	Bentley College Berne University	PRIMOS 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	VMS
BITNIC	BITNET NIC	VM/SP
	BITNET-Internet Gateway	VM/SP/HPO
	BITNIC Demo	VM/SP
BNR TRBOUN	BNR Information Systems Bogazici Univ	VM/SP NOS
BCCHEM	Boston College Chem Dept	VMS
BCVAX3	Boston College Computer Center	VMS
BCVMCMS	Boston College Computer Center	VM/HPO
BCVMS	Boston College Computer Center	VMS
BCVAX1	Boston College Computer Center	VMS
BCVAX2	Boston College Computer Center	VMS
BCVAX4	Boston College Computer Center	VMS
BOSTONU	Boston U Acad Comp Ctr	VM/SP HPO
BUACCA	Boston U Acad Comp Ctr	VM/SP HPO
BUISA	Boston U Admin Ctr	MVS/XA
BUASTA	Boston U Astronomy VAX A Boston U Chem Dept VAX B	VMS VMS
BUCHMB BUCHMC	Boston U Chem Dept VAX C	VMS
BUCHMA	Boston U Chemistry VAX A	VMS
BUENGA	Boston U Engineering VAX A	VMS
BUMETA	Boston U Met Coll VAX A	VM
BUPHYA	Boston U Physics VAX A	VMS
BOSTCIML	Boston Univ CIML	VM/SP
BUMFGA	Boston Univ MFG ENG A	VM/SP
BUPHYC	Boston Univ Physics VAX C	VMS
BOWDOIN	Bowdoin College	VMS
BGSUSTAT	Bowling Green State Univ Bowling Green State Univ	VM/SP 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	VMS
BNL	Brookhaven National Lab	UNIX BSD
BNLVMA	Brookhaven National Lab Brookhaven National Lab	VM/SP
BNLCHM BNLCL1	Brookhaven National Lab	VMS VMS
BNLUX0	Brookhaven National Lab	ULTRIX
BROWNCOG	Brown U Cognitive Sci	VMS
BROWNVM	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	-	CP6
BKNLVMS	Bucknell U Comp Services	VMS
BYUCOAL	BYU Combust Lab VAX	VMS VM/SP
BYUETIBM BYUADMIN	BYU Eng College BYU ISS	VM/SP VM/SP
BYUVAX	BYU ISS VAX	VMS

pnrack6/1	2.txt Fri Jul 01 13:24:49 2022	,
BYULIB	BYU Library	VM/SP
IPVCCN	C.C.N. Pavia, Italy	IBM VM/SP R5
	=	MVS
	C.C.S.C, Strasbourg, France	IBM VM/SP5
	C.C.S.C, Strasbourg, France	IBM VM/XA SF2
FRCICB71	C.I.C.B. Rennes	BULL MULTICS
FRCICB81	C.I.C.B., Rennes, France	CDC/NOS/VE
FRCICES1	C.I.M.E., Grenoble, France	DEC VMS
	C.I.R.I.L., Nancy, France	
FRCIIL71	<u> </u>	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
	C.R.I.A.I. Napoli - Italy	IBM VM/SP
FRIHBO11	C.R.I.H.	VM/SP
	C.R.I.H. de Marseille, France	IBM MVS
	C.S.A.T.A Bari, Italy	IBM VM/SP R3 1
FRCTN11	C.T.N.	IBM VM
IMIUCCA	Calcolo Autom Milano, Italy	UNIX 4 3
CALPOLY	Calif Poly State Univ	VM/SP
CALSTATE	Calif State U	NOS
CALTECH	Caltech	VMS
CITXRAY	Caltech	VMS
CIT4381	Caltech	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
	Caltech HEP	VMS
	Caltech XHMEIA	
		VMS
	Canisius College CC	VMS
CARLETON	Carleton U	CP-6
CMASV1	Carnegie Mellon U Comp Srvs	VMS
DRYCAS	Carnegie Mellon Univ Comp Clb	VMS
	Carnegie-Mellon U Comp Ctr	VM/SP
CWRU	Case Western	VMS
CUA	Catholic Univ of America CC	VMS
CUAVAXB		VMS
CUAVAXA	Catholic Univ of America CC	VMS
CATCC	Catonsville Comm Coll	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	Central Florida Reg Data Ctr MVS	MVS/SP
CFRVM	Central Florida Reg Data Ctr VM	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
	Centro de Calculo	NOS 2-5-3
IPGCUIC	Centro U Itialia Centrale	IBM VM/SP R3 1
	CEPS, Walferdange	VM/SP
		VM/SP VM/SP
FRTLS12	CERFACS	
CERNADP	CERN	IBM VM/SP
CEARN	CERN	VM/SP
CERNVAX	CERN	UNIX BSD
CERNVM	CERN	IBM VM/SP HPO R4 2
GEN	CERN	IBM MVS/SP 1 3.3
	CERN P173 Exp	VMS
	CERN P173 Experiment	DEC VMS
	CERN P173, Geneva, Switzerland	DEC VMS
CRUXNMCD	CERN P173, Geneva, Switzerland	DEC VMS
CRUXNHD	CERN P173, Geneva, Switzerland	DEC VMS

nhnack6/1	2.txt Fri Jul 01 13:24:49 20	22 8
phrack6/1		
	CERN P173, Geneva, Switzerland	DEC VMS
CRUXNMC1 CRUXNMC2	CERN P173, Geneva, Switzerland CERN P173, Geneva, Switzerland	DEC VMS DEC VMS
CRUXHYPD	CERN P173, Geneva, Switzerland	DEC VMS
UNICC	CERN, Geneva, Switzerland	IBM MVS/SP
CERNEMU1	CERN, Geneva, Switzerland	IBM VM/SP
CEARNV2	CERN, Geneva, Switzerland	IBM VM/SP
AECLCR	Chalk River Nuclear Labs	NOS
CAS	Chemical Abstracts Srv	ULTRIX-32
	CICG, Grenoble	BULL MULTICS
FRGREN81	CICG, Grenoble, France	CDC
FRNICE51 FRCIRP71	CICNT, Nice, France CICRP, Paris, France	VMS BULL MULTICS
FRTOU71	CICT - Toulouse	BULL MULTICS
FRCICT81	CICT Toulouse, France	CDC/NOS/VE
EMDCIE51	CIEMAT	DEC VMS 4 7
EMDJEN11	CIEMAT (Junta Energia Nuclear)	VM/SP
IMICLVM	CILEA	VM/HPO
IMICLVX	CILEA, Segrate - Milano, Italy	DEC VMS 4 5
IMIVMHEP	CILEA, Segrate - Milano, Italy	IBM VM/HPO R4 2
ICINECA2	CINECA	DEC VMS 4 7
IBOINFN ICINECA3	CINECA - Bologna CINECA - Bologna, Italy	RSX11-M IBM VM/SP HPO R4 0
ICINECA	CINECA Bologna	IBM VM/SP HPO R4 2
ICINECA1	CINECA, Bologna	CDC NOS 2 4.1
FRORS31	CIRCE, Orsay, France	MVS/SP
FRORS12	CIRCE, Orsay, France	IBM VM/SP R4
FRORS13	CIRCE, Orsay, France	IBM VM/SP R4
IMICISE	CISE - Milano, Italy	IBM VM/SP HPO R3
CITADEL	Citadel Military Co of SC	VMS
CITADEL1	Citadel Military Co of SC	VMS
CITADEL2 FRCITL71	Citadel Military Co of SC CITI Lille	VMS BULL MULTICS
FRCITI51	CITI LITTE	VAX VMS
	Claremont Grad School Comp Ctr	VMS
	Claremont Grad School Math Dept.	VMS
CLARKU	Clark Univ Off of Info Sys	VMS
CLVM	Clarkson U ERC	VM/SP
CLVMS	Clarkson U ERC	VMS
CLUTX	Clarkson U ERC	UTX/32
CLGW CLMIE	Clarkson U ERC Clarkson Univ MIE	UNIX VMS
CLEMSON	Clemson U Comp Ctr	MVS/SP
CSUOHIO	Cleveland State U Computer Svcs	VM/SP
UTORCLSC	CLSC	VMS
UTORSCS1	CLSC	VMS
CMCHEM	CMU Chemistry Dept	VMS
CMCCVB	CMU Computing Services	VMS
ANDREW	CMU Computing Services	UNIX
CGECMU51 CMPHYSME	CMU Geneve CMU Med Energy Physics	DEC VMS VMS
CMPHYS	CMU Physics Dept	VMS
WACES	CMU Physics Dept	VMS
FRCRPE51	CNET/CRPE	VMS
IPDCNR	CNR - Area di Ricerca, Padiva	DEC VMS
IRMITSE	CNR ITSE Roma, Italy	IBM VM/SP R3
FRCGM51	CNRS - CGM	VAX VMS
FRCECM51	CNRS Ctr Metallurgique	VMS
FRUNIP11 FRPOLY11	CNRS-LITP, Paris, France Cntr Info Ecole Polytech	VM/SP R5 VM/SP
ICNUCEVB	CNUCE - C N.R. Pisa, Italy	IBM VM/SP HPO R4 0
ICNUCEVX	CNUCE - C N.R. Pisa, Italy	VMS 4 7
FRMOP22	CNUSC - Montpellier	MVS/XA
FRMOP11	CNUSC Montpellier	VM/SP
FRMOP12	CNUSC, Montpellier	VM/SP
WMMVS	Col William and Mary Comp Ctr	MVS/SP
WMHEG	Cold Caring Harbar Lab	VMS
CSHLAB COLGATEU	Cold Spring Harbor Lab Colgate Univ	VMS VMS
FRCDF51	College de France, Paris	DEC VMS
		· · · · · · ·

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	9
CMR001	College militaire royal	CP-6
CODVM1	College of DuPage Comp. Srvs	VM/SP
HLYCRSS1	College of the Holy Cross	VM/SP
HLYCROSS MINES	College of the Holy Cross Colorado Sch Mines	VMS VMS
CSUGREEN	Colorado State U	VMS
CSUGOLD	Colorado State U	
CSU205	Colorado State U	VSOS 2.3
COLOSTAT		
CUCCVX	Columbia U Admin Dept	VMS
CUGSBVAX		VMS
CUCHEM CUCHMB	Columbia U Chemistry Dept Columbia U Chemistry Dept	VMS VMS
CUCEVX	Columbia U Civil Eng.	VMS
CUCCA	Columbia U Cluster Ctrl A	UNIX BSD
CUCSVM	Columbia U Comp Sci	VM/SP
CUNIXC	Columbia U Ctr Cmptng. Act.	ULTRIX
CUVMC	Columbia U Ctr for Comp Activities	VM/SP
CUVMA	Columbia U Ctr for Comp Activities	VM/SP
CUVMB	Columbia U Ctr for Comp Activities	VM/SP
CUMIN CUGSBVM	Columbia U Ctr for Comptng Act Columbia U Grad Sch Business	VMS VM/SP
CUCCFA	Columbia U Health Sciences	VMS
CUHSDA	Columbia U Health Sciences	VMS
CUMBG	Columbia U Molecular Biophy. Graph	VMS
CUORCA	Columbia U Orthopaedic Res Clust A	VMS
CUORMB	Columbia U Orthopaedic Res Clust A	VMS
CUORMA	Columbia U Orthopaedic Res Micro A	VMS
CUPHYD CUSB	Columbia U Physics Dept Columbia U Stony Brook Exp - CESR	VMS VMS
CUTCV1	Columbia U Teachers Coll	VMS
CUTHRY	Columbia U Theoretical Phys	VMS
CUCISA	Columbia Univ Ctr for Clinical Res	VMS
UTKVX	Computing Center	VMS
CONU1	Concordia U Computing Ctr	NOS
CONU2	Concordia U Computing Ctr	VMS
CONNCOLL CTSTATEU	Connecticut Coll Connecticut State Univ Sys	ULTRIX VMS
IRMCNR	Consig Naz Richerche - Roma	IBM VM/SP R3
DKCBS01	Copenhagen Business School, DK	PRIMOS
DKTC11	Copenhagen Technical College	IBM VM/SP
CRNLION	Cornell Lab of Plasma Stud	ULTRIX
CORNELLA		VM/SP/HPO
CORNELLC CRNLASTR	Cornell U Computer Services Cornell U Dept of Astronomy	VM/SP/HPO VMS
CRNLCS	Cornell U Dept of Computer Science	UNIX BSD
CRNLGSM	Cornell U Grad Sch of Mgmt	VMS
CRNLNS	Cornell U Lab of Nuclear Studies	VMS
CRNLIMAP	Cornell U Mech Eng	VM/SP
CUMC	Cornell U Medical College	VM/SP
CORNELLF CORNELLD	1 1	VM/XA/SF VM/SP/HPO
CRNLCAM	Cornell Univ CAM	UNIX BSD
CRNLVAX2	Cornell Univ Comp Servs	UNIX BSD
CRNLVAX3	Cornell Univ Comp Servs	ULTRIX
CRNLVAX4	Cornell Univ Comp Servs	ULTRIX
CRNLVAX1	Cornell Univ Comp Srvs	UNIX BSD
CRNLVAX5	Cornell Univ Comp Svcs	VMS
CRNLMVS	Cornell Univ Computer Srvs	MVS/SP
CRNLDEV CRNLCHES	Cornell Univ Ctr Theory & Simul in Sci & Cornell Univ HESS	VMS
CRNLASSP	Cornell Univ LASSP	UNIX BSD
CRNLNUC	Cornell Univ LNS	SUNOS UNIX
CRNLMSC2		CONVEX UNIX
CRNLMSC3	Cornell Univ Materials Sci Ctr	CONVEX UNIX
CRNLEE	Cornell Univ Sch Elec Eng	UNIX BSD
CRNLTHRY FRIHRO21	Cornell Univ Theory Ctr. CRIH de Haute Normandie	UTX/32 MVS
FRIHVG11		MVS VM/SP
FRCRN51		DEC VMS

phrack6/1	.2.txt Fri Jul 01 13:24:49 2022	10
ITOCSIP ILCTEHOL	· · · · · · · · · · · · · · · · · · ·	IBM MVS/SP 3 8 VMS
SECTHF51	•	DEC VMS
FRCTHO11	CTHO, Orsay, France	IBM VM/SP
GRPATVX1	. , 1	VMS
CATE BBADMIN	Ctr for Adv Tech Educ CUNY - Baruch Col Admin Comp Ctr	VM/SP VM/SP
BBADMIN2	CUNY - Baruch Col Admin Comp Ctr	VM/SP VM/SP
BARUCH	CUNY - Baruch College	VM/SP
BMACADM	CUNY - Bor of Manhattan Comm Col	VM/SP
BM002	CUNY - Bor of Manhattan Comm Col Adm	VM/SP
BX001	CUNY - Brooklyn College	VM/SP VM/SP
BKLYN BKLYNMVS	CUNY - Brooklyn College CUNY - Brooklyn College	MVS/SP
BKLYNCIS	CUNY - Brooklyn College	UNIX
CCNY	CUNY - City College of New York	VM/SP
CCNYVME	CUNY - City College of New York	VM/SP
CCNYSCI CCNYVAX1	CUNY - City College of NY CUNY - City College of NY	UNIX VMS
SI001	CUNY - Col of Staten Island	VM/SP
CUNYVMS1	CUNY - Graduate Center	VMS
HUNTER	CUNY - Hunter College	VM/SP
KB001	CUNY - Kingsborough Comm Col	VM/SP
LEHMAN NY001	CUNY - Lehman College	VM/SP VM/SP
QUEENS	CUNY - New York City Tech Col CUNY - Queens College	VM/SP VM/SP
QB001	CUNY - Queensborough Comm Col	VM/SP
CUNYJES3	CUNY - University Computer Ctr	MVS/SP
YORK	CUNY - York College	VM/SP
CUNYVM	CUNY University Computer Ctr	VM/SP/HPO VM/SP/HPO
CUNYVMV2 HOSTOS	CUNY University Computer Ctr CUNY University Hostos Comm. Coll	VM/SP/HPO VM/SP
JJAYVM	CUNY University John Jay. Coll	VM/SP
LAGCC	CUNY University LaGuardia Comm. Coll	VM/SP
MEDGAR	CUNY University Medgar Evers Coll	VM/SP
MCVAX FRDRFG01	CWI Amsterdam D.R.F., Grenoble, France	UNIX PRIMOS REV 21
SDNET	Dakota State College	VM/SP
DAL	Dalhousie U Comp Cntr	NOS
DALAC	Dalhousie University UCIS	VMS
DALADM	Dalhousie University UCIS	MVS/SP
DKDHI11 DKSFI11	Danish Hydraulic Inst Danish Ntl Inst Social Res	IBM VM/SP IBM VM/SP R3
DARTCMS1	Dartmouth College Kiewit CC - CMS1	VM/SP
DAVIDSON	Davidson Coll	VMS
DEPAUL	De Paul Univ	VMS
DEPAULC	De Paul Univ De Paul Univ	VMS
DEPAULO DECUSA	DECUS Symposium Demo Node	VMS VMS
DECUSB	DECUS Symposium Demo Node	VMS
DECUSC	DECUS Symposium Demo Node	VMS
DECUSD	DECUS Symposium Demo Node	VMS
DECUSE DECUSF	DECUS Symposium Demo Node DECUS Symposium Demo Node	VMS VMS
DECUSE	DECUS Symposium Demo Node	VMS
DECUSH	DECUS Symposium Demo Node	VMS
DECUSI	DECUS Symposium Demo Node	VMS
DECUSJ	DECUS Symposium Demo Node	VMS
D00DEMO DENISON	Demo Node Germany Denison Univ	VMS
FRULM63	Dept Math ENS Paris	UNIX
JPNKBUDS	Dept of Systems Eng	VM/SP
DHHDESY3	DESY	MVS/SP
DFVLROP1	Deutsche FVLR Oberpfaffenhofen	IBM VM/SP HPO
DHDDKFZ1 DFNGATE	Deutsches Krebsforschungszentr DFN Gateway at GMD DA, Germany	IBM VM/SP HPO R4 2 IBM VM/SP R4
DFVLRBS1	DFVLR Braunschweig	IBM VM/SP HPO
DFVLRG01	DFVLR Goettingen	IBM VM/SP HPO
DFVLRKP1	DFVLR Koeln-Porz	IBM VM/SP HPO
DFVLRLA1	DFVLR Lampoldshausen, Germany	IBM VM/IS

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	11
DFVLROP2	DFVLR Oberpfaffenhofen	IBM MVS/XA
DFVLRST1	DFVLR Stuttgart	IBM VM/SP HPO
DKDHI12	DHI, Horsholm, Denmark	IBM VM/SP
DICKINSN	<u> </u>	VMS
IFICHIM	Dip. di Chimica Firenze, Italy	VM/SP
ITOINFO	Dip. Informatica Torino, Italy	UNIX 4 2
IPIINFO	Dip. Informatica Univ Pisa	UNIX BERKELEY
IRM2CIV	Dip. Ingen. Civile Univ Roma 2	VM/SP
IPIFIDPT	Dipartimento di Fisica, Pisa	IBM VM/SP HPO R5
DB0DIW11	DIW Berlin	VM/SP
HLSDNL50	DNL Leidschendam	VMS 4 6
HLSDNL5	DNL Leidschendam, Netherlands	VMS 4 6
HLSDNL51		VMS 4 6
DKDOU01	DOU, Odense, Denmark	SPERRY OS 1100
DRAKE	Drake Univ	VMS
DREW	Drew Univ	VMS
DRUNIVAC	Drew Univ	VMS
DUPR	Drexel Univ Off Cmptng Srvs	PRIMOS
DUVM	Drexel University	VM/SP
DUPHY1	Drexel University	VMS
DUKEFSB	Duke U FUQUA Bus Sch	VM/SP
DUKE	Duke University	MVS/SP
	E.M.B.L. Grenoble, France	VMS
FRERB51	E.N.S.E.R.B., Talence, France	DEC VMS
FRENSL61		UNIX BSD 4 2
EBESADE0	E.S.A.D.E. Barcelona - Spain	AOS/VS
EARNWRLD	EARN Demonstration node	VAX/VMS
ECUVM1	East Carolina Univ Comp & Info Sys	VM/HPO
ETSU	East Tennessee St. Univ	VM/SP
ETSUACE	East Tennessee St. Univ	VM/SP
EWCN	East-West Center	VMS
ECLACSVM	ECLA, Computer Center	VM
FRECCL11	Ecole Centrale de Lyon, France	IBM VM/SP R4
FRECP11	Ecole Centrale de Paris	IBM VM/SP R4
FREMP11	Ecole des Mines Paris	VM/SP
FRHEC11	Ecole Hautes Et Commer Paris	IBM VM/SP R4 0
FRULM11	Ecole Normale Super Paris	IBM VM/SP
	Ecole Normale Superieure Paris	VMS
DOLVTEC1	Egolo Dolytochnicus	MICTC

POLYTEC1 Ecole Polytechnique

AMBER88 EDUCOM '88 Prime Demo

AWIBOK01 EDV-Zentrum Boku Wien

CLSEPF51 Eid Tech Hoch Lausanne CZHETH5A Eidgen Tech Hoch Zuerich

EPRI Electric Power Res Inst

DHDEMBL EMBL Heidelberg, Germany

EMUVM1 Emory U Comp Ctr - VM1

EMORYU1 Emory U Comp Ctr UNIX1

DHHEMBL5 EMBL Hamburg, Germany

AWITUW02 EDV-Zentrum TU Wien

AWITUW01 EDV-Zentrum TU Wien

AWIUNI11 EDV Zentrum U Wien

EDUCOMDW EDUCOM 88 Conf. Demo Node

EDUCOM88 EDUCOM 88 Conf. Demo Node

AINUNI01 EDV-Zentrum Uni Innsbruck

CAGEIR5A EIR, Wuerenlingen, Switzerland

Emory U Comp Ctr - VM2

Emory U Math and CS

EMORY Emory U Math and CS
EMRYCC Emory Univ Comp Ctr VMS VAX

EDUCOM EDUCOM

EDUCOM2 EDUCOM

TREARN Ege Univ

EMUVM2

EMORY

POLYTEC1 Ecole Polytechnique
POLYTEC2 Ecole Polytechnique
POLYTEC3 Ecole Polytechnique
POLYTECA Ecole Polytechnique VM
FRESCR51 Ecole Sup de Commerce
FRESE51 Ecole Super d'Elec
IECSEC ECSEC IBM Rome
RUIPC1E EDS Deutschland GmbH, Germany
ECNCDC Edu Computing Network of IL
CIEARN Educat & Research, Ivory Coast

IBM VM/SP VMS MUSIC

IBM VM/SP HPO 3 4 IBM MVS/XA 2 1.3

IBM VM/SP HPO R4 2

MUSIC MUSIC VM/SP DEC VMS DEC VMS

NOS VM/SP

VMS

VMS

VM/SP

PRIMOS

PRIMOS

VM/SP DEC VMS

VMS

VMS

VMS

VMS

VM/SP

VM/SP

VM/SP

UNIX BSD

BERKELEY UNIX

NOS/VE 1 3.1

NOS/VE 1 3.1

DEC VMS 4 6

NOS/VE 1 3

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	12
EMORYU2	Emory Univ Comptng Ctr	UNIX
EMRCAN	Energy Mines & Resources Can	VMS
HPEENR51	,	VAX VMS
HROEUR5	Erasmus U Rotterdam	VMS 4
ESOC	ESA ESOC, Darmstadt, Germany	IBM VM/SP HPO R5 0
HNOESA10	ESA Europ Space Res Tech Ctr	VM/SP 4 2
IFRESA10 FRESA10	ESA/ESRIN Frascati, Italy ESA, France	IBM VM/SP R4 IBM VM/SP R3 1
DGAESO51	ESO, Garching	VMS
ESASTSP	ESTEC / STSP Project	VM/SP HPO4 2
FRESTP11		VM/SP
CZHETH1I	ETH und Uni Zuerich IBT	IBM VM/SP HPO 5 0
CZHETH1B	ETH Zuerich Bibliotek	IBM VM/SP HPO 5 0
CZHETH1C	ETH Zuerich IKB	IBM VM/SP HPO 5 0
	ETHZ/IHP	IBM VM/SP HPO 4 2
ROSEDALE	ETS	VMS
DHDEMBL5	European Molecular Biology Lab	VMS
ITSOGS ERENJ	Exp. Geophys. Observ. Trieste Exxon Res & Eng Co	IBM VM/SP R4 VM/SP
EREVAX		VM/SP VMS
	F.U.P.L. de Lille, France	IBM VM/SP R4
TFTSTAT	Fac. Econ e Comm Firenze	IBM VM/SP R5
DAAFHT1	Fachhochschule Aalen	VM/SP
	Fachhochschule Heilbronn	IBM VM/SP R3
DKAFHS1	Fachhochschule Karlsruhe	IBM VM/SP R4
DMAFHT1		IBM VM/SP R4 0
	Fachhochschule Wiesbaden	IBM VM/SP R3
	Facultes U Notre Dame de la Paix Namur Be	· ·
BNANDP10	Facultes U Notre Dame Namur	VM/SP R5
IRMFA000	FAO FAW Ulm, Germany	IBM VM/SP R4 2 VM/SP R4 5
DS0FBD11	FBD - Schulen Gemein GMBH	IBM VM/SP R3
FDACFSAN	FDA, CFSAN	VM/SP
FNALA	,	VMS
FNALDBG	FERMI Natl Accelerator Lab	VMS
FNAL	Fermilab	VMS
FNALB	Fermilab	VMS
FNALBSN	Fermilab	VMS
FNALB0 FNALC	Fermilab Fermilab	VMS VMS
FNALCDF	Fermilab	VMS
FNALNET	Fermilab	VMS
FNALVM	Fermilab	VM/SP
FNMFE	Fermilab	VMS
FNALG	Fermilab	VMS
FNALJ	Fermilab	VMS
FNALF	Fermilab	VMS
FNALE	Fermilab	VMS
FNALMDTF FNAL01	Fermilab Fermilab	VMS VMS
FNAL01	Fermilab	VMS
FNAL05	Fermilab	VMS
FNAL17	Fermilab	VMS
FNAL26	Fermilab	VMS
FNAL27	Fermilab	VMS
FNACP	Fermilab	VMS
FNBIT	Fermilab	VMS
FNALH	Fermilab	VMS
FNALI	Fermilab	VMS
FNALK FNCCF	Fermilab Fermilab	VMS VM
FNALAD	FERMILAB Ntl Lab	VMS
DHAFEU51	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 FSURAI	Fl St U Spr-comp Frnt-end Sys FL State U Rsrch Instrtnl Sys	NOS NOS
LOUNAL	In peace o varou inscient sys	1100

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phrack6/12.txt
                              Fri Jul 01 13:24:49 2022
                                                                            13
FSUSUP FL State U Super Comp Sys
                                                                           VSOS
NERVM Florida NE Reg Data Ctr
NER Florida NE Reg Data Ctr
                                                                           VM/SP
                                                                          MVS/XA
FSU Florida State U
BEARN2 FNRS/NFWO, Brussels, Belgium
                                                                           VM/SP
FORDMULC Fordham Univ
FORDMURH Fordham Univ
FANDM
          Franklin and Marshall Coll
                                                                            VMS
FANDMA Franklin and Marshall Coll
                                                                           VMS
FANDMB Franklin and Marshall Coll
                                                                           VMS
FANDMC Franklin and Marshall Coll
FHCRCVM Fred Hutchinson Cancer Res Ctr
FHCRCVAX Fred Hutchinson Cancer Res Ctr Div Clin ReVMS
DB0DSS81 Freie Universitaet Berlin SIEMENS BS2000
DB0FHI01 Fritz Haber Institut der Max Planck GesellCDC NOS/BE 1 5
FIPORT FSCC, Espoo, Finland
DB0FUB03 FU Berlin ZEDAT CDC
DB0FUB11 FU Berlin ZEDAT CDC, Germany
                                                                           DEC VMS
                                                                            CDC NOS/BE 1 5
                                                                            IBM VM/SP
GALLUA Gallaudet Univ Comp Svcs
GALLUB Gallaudet Univ Comp Svcs
GALLUE Gallaudet Univ Comp Svcs
FRGAN01 GANIL, Caen, France
                                                                            VMS
                                                                            VMS
                                                                            VMS
                                                                            MAX32 REV A 1
GECRDVM1 GE R&D
                                                                            VM/SP
CGEHCU61 Geneva Hospital, Switzerland
GMUVAX George Mason U
GWUVM George Washington U Comp Ctr
GUVM Georgetown U Acad CMS
GUVAX Georgetown U Acad VAX
Georgia State U - MVS1
                                                                            UNIX
                                                                            VMS
                                                                           VM/SP
                                                                           VM/SP
                                                                           VMS
MVS/XA
GBURG Gettysburg Coll

DGHGKSS4 GKSS, Geesthacht, Ger

DBNGMD12 GMD Bonn, Germany

SEGUC11 Gothenburg U Comp Ctr

SEGUC21 Gothenburg U Comp Ctr

SEGUC21 Gothenburg U Comp Ctr

SEGUC21 Great Britain EARN London

FRPROG61 GRECO Programmation Bordeaux

CRINC Crippoll College - Admin

VMS

VMS
                                                                           SIEMENS BS3000 E 40
GRIN2 Grinnell College - Admin
GRIN1 Grinnell College Academic
                                                                           VMS
                                                                           VMS
FRGAG51 Groupe Astrophysique Grenoble
DGAGRS2A GRS Garching
                                                                           IBM MVS/XA
DK0GRS11 GRS Koein
                                                                            VM/SP
DM0GSF11 GSF Muenchen
                                                                            VM/SP
DM0GSF51 GSF-MEDIS
                                                                            VMS
DDAGSI5 GSI Darmstadt VAX

DDAGSI1 GSI Darmstadt, Germany

DDAGSI10 GSI Darmstadt, Germany

GACVAX1 Gustavus Adolphus Coll

DGOGWDG1 GWD Goettingen, Germany

DGOGWDG5 GWD Goettingen, Germany

GWII - School of Eng
DDAGSI5 GSI Darmstadt VAX
                                                                           DEC VMS 4 3
                                                                      IBM VM/SP R4 0
IBM VM/SP R4 0
VMS
                                                                           VMS
                                                                           IBM VM/SP R4
                                                                           DEC VMS
GWUVAX GWU - School of Eng.
                                                                            VMS
SEASVM GWU - School of Eng. IBM
HADASSAH Hadassah U Hospital
DBOHMI41 Hahn-Meitner-Institut Kerforschung
HAIFAUVM Haifa University
                                                                            VM/SP
                                                                           DEC VMS
                                                                      SIEMENS BS3000 MSP 10
                                                                            IBM VM/SP R4 1
HAMPVMS Hampshire Co
KRHYUCC1 Hanyang Univ
              Hampshire College
                                                                            VMS
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VMS

phrack6/1	.2.txt Fri Jul 01 13:24:49 2022	14
HUSC5	Harvard HASCS	VMS
HUSC2	Harvard HASCS	BSD UNIX 2.9
HUARP1	Harvard U Atmos Res Project	VMS
HARVBMB HARVJMMY	Harvard U Biochem & Molecul Bio Harvard U Biostat Res Cmptng	UNIX BBN ULTRIX
HARVBUS1		VM/SP
HUCHE1	Harvard U Chemistry VAX1	VMS
HARVARD	Harvard U Computer Science	UNIX BSD
CFA2 CFA3	Harvard U Ctr Astrophysics Harvard U Ctr Astrophysics	VMS VMS
CFA	Harvard U Ctr Astrophysics	VMS
CFAAMP	Harvard U Ctr Astrophysics	VM/SP
CFA4	Harvard U Ctr Astrophysics	VMS
CFA5 CFA6	Harvard U Ctr Astrophysics Harvard U Ctr Astrophysics	VMS VMS
CFA7	Harvard U Ctr Astrophysics	VMS
CFA8	Harvard U Ctr Astrophysics	VMS
CFAPS2	Harvard U Ctr Astrophysics Harvard U Faculty Arts & Sciences	VMS
HARVPCNA HUGSE1	Harvard U Grad Sch of Ed	MS-DOS VMS
HARVHEP	Harvard U High En Physics Lab	VMS
HUHEPL	Harvard U High Energy Physics	VMS
HUXTAL	Harvard U Mole Bio Cmptng.	VMS
HARVARDA HUSSLE	Harvard U OIT Harvard U Physics Dept	VM/SP VMS
	Harvard U Psychology Dept	UNIX BSD
HARVUNXC	2 32 1	UNIX
HARVUNXU	Harvard U Science Center Harvard U Science Ctr	UNIX BSD
HUSC6 HULAW1		UNIX VMS
HUSC3	Harvard U Science Ctr	VMS
HUMA1	Harvard U Science Ctr	UNIX BSD
HUSC7	Harvard U Science Ctr Harvard U Science Ctr	ULTRIX
HUSC8 HUSCGW	Harvard U Science Ctr BITNET Mail Gtwy	ULTRIX VMS
	Harvard U Sociology Dept	UNIX BSD
HARVSPHA		ULTRIX
HARVSPHB FOURCC	Harvard Univ Health Sci. Cmptng. Fac. Harvey Mudd Col Comp Services	ULTRIX VMS
HMCVAX	Harvey Mudd Col Comp Services Harvey Mudd Col Comp Srvs	VMS
ECHMC	Harvey Mudd Col Eng Dept	VMS
FROSH	Harvey Mudd Col Eng Dept	VMS
YMIR HECMTL01	Harvey Mudd Col Math Dept Hautes Etudes Commerciales	VMS
HVRFORD	Haverford Col Acad Comp Ctr	VMS
DKHHA	HDC Aarhus	VMS
HUJINIX	Hebrew U Comp Cnt Unix	UNIX BSD 4 2
HBUNOS HUJIVMS	Hebrew U Comp Ctr Hebrew U Comp Ctr	NOS DEC VMS
HUJICS	Hebrew U Computer Sci	UTX 32
HUJIAGRI	2 2	DEC VMS
HUJIFH	Hebrew U Fritz Haber Molec Dyna Ctr	UNIX BSD 4 2 UNIX BSD 4 2
HUMUS HUJINOS2	Hebrew U Jerusalem Comp Sc Hebrew U Jerusalem, Israel	NOS
HUJIMD	Hebrew U Medical School	DEC VMS
BATATA	Hebrew U Molecular Ctr	UNIX BSD 4 2
HUJIPRMA HUJIPRMB	Hebrew U Mount Scopus Comp Ctr Hebrew U Mount Scopus Comp Ctr	PRIMOS PRIMOS
HUJIVM1	Hebrew University	VM/CMS
FINGATE	<u>-</u>	UNIX
FINHUTA		IBM VM/SP R4
FINHUTC FINHUT	Helsinki U Tech Finland Helsinki Univ of Tech	IBM VM/SP R4 IBM VM/SP R5
	Helsinki University of Techn	UNIX 4 3 BSD
FINHUTEE	Helsinki University of Techn	UNIX 4 3 BSD
FINHUTIT		UNIX 4 3 BSD
JPNHIROA DDATHD21	Hiroshima Univ Hoch TH Darmstadt	VM/HPO MVS/SP
	Hoch U Dortmund	IBM VM/SP R3
DHDIHEP5	Hochenergiephysik	VMS

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	15
DHIURZ1	Hochschule Hildesheim Germany	IBM VM/SP R4
	Hofstra Univ	VMS
	Howard Univ Central Comp	MVS
HSETC HUJIDS	HSETC HUJI Dental School Humber College	VM/SP HPO DEC MICROVMS
HUJIDS HUMBER	Humber College	VM/SP
IRMIAS	number correge	VM/SP
IFIIDG	=	VM/SP
ITOIMGC		VM/SP
IRMCRA	I Richerche Aerospaziali	IBM VM/SP
IPVIAN	I.A.NCNR, Pava, Italy	VM/SP
IGEICE		CDC NOS 2 4.2
FRILL52 FRILL		DEC VMS DEC VMS
FRIMFT11		VM/SP
	I.N.S.E.R.M.	DEC VMS
FROPT11		IBM VM/IS
TRITU		VM/SP R3
	I.U.T. Progem	VM/SP
AWIIAE21		IBM MVS/XA 2 1.3
	IASI CNR Roma, Italy IBM Almaden Res Ctr	DEC VMS V4 5 VM/SP
	IBM Almaden Res Ctr	VM/SP VM/SP
	IBM Almaden Res Ctr	VM/SP
ALMCSVS5		VM/SP
ALMVMA		VM/SP
ALMVMB	IBM Almaden Res Ctr	VM/SP
ALMVMC	IBM Almaden Res Ctr	VM/SP
ALMVMZ	IBM Almaden Res Ctr	VM/SP
IBMLABNN ISRAEARN		IBM VM/SP R3
DS0LILOG		IBM VM/SP R3
ZURLVM1	3	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
WATSON	IBM Watson Sci Res Ctr IBM Watson Sci Res Ctr	VM/SP VM/SP
YKTVMT YKTVMH	IBM Watson Sci Res Ctr	VM/SP VM/SP
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	IBM Wissenschaftliches Zentrum	VM/SP
DHDIBM1W FRIBCP51	IBM WZH & ENC Heidelberg IBMC, Strasbourg, France	VM/SP DEC VMS
DKIBT	IBT	IBM VM/IS VER 1 5
SELIUI51	IDA Linkoping, Sweden	DEC VMS
SELIUIDA		DEC VMS
BBRIBM11	IEC, La Hulpe, Belgium	VM/SP HPO R4 2
AWIIEZ11	IEZ Numerischer Rechner, Wien	IBM VM/SP R4
DHVIFW1	IFW, Univ Hannover, Germany	IBM VM/SP R5
IITVAX FRINA11	Illinois Inst Tech/ACC INA-PG	VMS IBM VM/IS
INDST	Indiana State Univ	VM/SP
IUBACS	Indiana U Bloomington ACS	VMS
IUP	Indiana U of Penn	HONEYWELL CP-6 CC
IUBVM	Indiana Univ Bloomington VM	VM/XA SF RELEASE
IUCF	Indiana Univ Cyclotron Facil	VMS
IUBUS	Indiana Univ Sch of Business	VM/SP
INSTEPS	Indiana Univ Stwde Teah Elec Prod Sys	VM/SP
INDYVAX INDYCMS	Indiana/Purdue U Indiana/Purdue U	VMS VM/SP
INDICMS	Indiana/Purdue U	VM/SP VM/SP
IUIS	Indiana/Purdue U	MVS/XA
FRINED51	INED	DEC VMS
IRMEMU	INFN - EMU, Roma, Italy	IBM VM/SP R4
IPIVAXIN		DEC VMS
IPIINFN	INFN Pisa	IBM VM/SP R4

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	16
IRMLNF		DEC VMS 4 4
ITIVAX	Information Technology Inst	VMS
ILNPL	INPL, Israel	DEC VMS
FRINRA11	INRA - CTIG	IBM VM/SP R4
FRINRA72	INRA - CTIS	BULL MULTICS
FRIRTS71	INRETS	BULL MULTICS
FREIBA51	INSEAD	DEC VMS
FRCCRM51 FRIAP51	, , , , , , , , , , , , , , , , , , , ,	DEC VMS VMS
PTIFM	Inst d'Astrophysique Paris Inst de Fisica e Matematica	DEC VMS
IMISIAM		VM/SP
IASSNS		VMS
IASSUN	Inst for Advan Study	UNIX BSD
DBNMEB1	Inst fuer Med Statistik / Med Einrichtung	
AWIIMC11	±	IBM VM/SP HPO R4 2
IRMISS	Instit Superiore di Sanita Institut d'Estudis Catalans	VM/SP
EBRIEC01 DHDIHEP1	Institut d'Estudis Catalans Institut fuer Hochenergiephysi	38 CPF IBM VM/SP R4
FRILL51		VMS
FRPSTR01	_	AOS/VS
FRINT51		VMS
FRCPN11		VM/SP
IONAACAD		VM/SP
IONA	Iona College Music Sys	VM/SP
ALISUVAX ISUMVS	Iowa S U Ames Lab Dept Energy Iowa State U Comp Ctr	VMS MVS/SP
ISUCARD	Iowa State U Ctr. Agricul. & Rural Dev	VM/SP
ISUEVAX	Iowa State U Eng. VAX Cluster	VMS
ISUVAX	Iowa State VAX Cluster	VMS
DMZNAT51	IPH KCH KPH Uni Mainz, Germany	DEC VMS 4 6
DGAIPP5N	IPP (MPI f. Plasmaphysik)	VMS
IRIS	IRIS	UNIX
IRUCCVAX FRISIO11	IRUCCVAX ISIO - MIAGE	VMS VM/IS
IRMISRDS		IBM VM/SP R5
TRIUVM11	Istanbul Univ	IBM VM/SP R3
ITHACA	Ithaca College	VMS
ICUNIX	Ithaca College	ULTRIX
FRIUTO11	IUT Orsay	IBM VM
JAXLAB JMUVAX1	Jackson Lab James Madison Univ VAX1	UNIX BSD VMS
JPNJAERI		VM/SP
JCSVAX1	Jersey City St Co	VMS
ILJCT	Jerusalem Col Tech	DEC VMS
JHUNIX	JHU HCF	UNIX
JHUVM	JHU HCF	VM/SP
JHUVMS JHHMVS	JHU HCF JHU HCF	VMS MVS/XA
JHHVM	JHU Hosp Info Sys Dept	VM/SP
JHUHYG2	JHU School of Public Health	ULTRIX
JNETDEMO		VMS 4 6
ALIJKU21	Johannes Kepler U Linz	IBM MVS/SP 1 3.8
JCUVAX	John Carroll Univ	VMS
JCVAXA	John Carroll Univ	VMS
JVNCC JVNCD	John Von Neumann Ctr John Von Neumann Ctr	VMS 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 Jyvaskyla Univ , Finland	VMS DEC VMS 4 4
FINJYU 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
	Kath U Leuven	VM/SP R4
	Kath Univ Leuven	UNIX
BLEKUL21	Kath. Univ Leuven, Belgium	MVS/XA 2 2.0

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	17
BLEKUL12	Kath. Univ Leuven, Belgium	VM/SP R4
	Katholieke U Leuven Mech Eng	VM/SP R3 1
HNYKUN55		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	Katholieke U Nijmegen	VMS
HNYKUN53	Katholieke U Nijmegen	VMS 4 1
HTIKUB5	Katholieke Uni Brabant	VMS 4
	Katholieke Universiteit Nijmegen	VMS
	Keio Univ	OS IV/F4 MSP
	KEK Network	VMS
	KEK TRISTAN	OS IV/F4 MSP
	Kent S U Ashtabula	VMS
KENTGEAU	Kent S U East Liverpool Kent S U Geauga	VMS VMS
KENTVM	Kent S U Info Services	VMS VM/SP
KENTVMS	Kent S U Info Services	VMS
	Kent S U Info Services	VMS
	Kent S U Salem	VMS
	Kent S U Stark	VMS
_	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
DJUKFA53	Kernforschungsanlage Juelich G	VMS
HGRRUG51	∡	VMS 4 2
DJUKFA54	KFA Juelich - IFF	VMS
DJUKFA52	KFA Juelich - IPP	VMS
	KFK Karlsruhe	IBM VM/SP
DB0ZIB21	Konrad Zuse Zentrum Infor	IBM MVS/SP 1 3.4
JPNKEKVM	Kou Enerugi Ken, Tsukuba Japan	VM/SP
SEKTH	KTH	UNIX BSD4 3
BLEKUL13		VM/SP R3
	Kyoto U HEPL Kyoto Univ	OS IV/F4 MSP 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	UNIX
LNCC	Lab Nat'l Comp Cientificia	VM/SP
FRUPS51	Lab physique des solides	VAX VMS
FRPOLY52	Labo Physique Nucl Haute Eng	VMS
LAFAYETT	Lafayette College	UNIX
LAKEHEAD	Lakehead U	UNIX
LUSUN	Lakehead U	SUN UNIX
LUVMS	Lakehead U	MICROVMS 4 5
FRLAL51 HWALHW5	LAL, Orsay, France Landbouwhogeschool Wageningen	DEC VMS 4 5 VMS 4 3
HWALHW50	Landbouwuniv Wageningen	VMS 4 3
FRLAPP51	LAPP, Annecy, France	DEC VMS
FRLASM51	LAS Marseille France	DEC VMS
FRLASH51	LASH-ENTPE	DEC VMS
LAUVAX01	Laurentian University	VMS
LAUCOSC	Laurentian University	VMS
LAUADMIN	Laurentian University	VMS
LAVALVM1	Laval U	VM/SP
LAWRENCE	Lawrence Univ	VMS
SELDC51	LDC Lund, Sweden	DEC VMS
SELDC52	LDC Lund, Sweden	DEC VMS
LEMOYNE	Le Moyne College	VMS
LEHICDC1	Lehigh Univ CC - Cyber 850	NOS
LEHICIM1	Lehigh Univ CIM Lab VM1	VM/SP
LEHIIBM1	Lehigh Univ Comp Ctr - IBM4381	VM/SP
LEHIGH	Lehigh Univ Comp Ctr - Ntwk Server Lehman Col Acad Comp Ctr	MUSIC/SP
LCVAX DM0LRZ01	Leibniz Rechenzentrum Muenchen	VMS CDC NOS 2 5
2110 11111110 1		020 1.00 2 0

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	18
LCLARK	Lewis & Clark College	BERKELEY UNIX 4.3
	LIDAC Linkoping, Sweden	DEC VMS
DHHLILOG		IBM VM/SP R4
FRLIM51	_ ·	DEC VMS
FRLMCP61 FRFLU51		SUNOS 3 4 DEC VMS
LIUVAX		VMS
LAMPF		VMS
LSUENG		NOS
LSUMVS	Louisiana St U Comp Ctr	MVS/SP
LSUVM	Louisiana St U Comp Ctr	VM/SP
LSUVAX	Louisiana St U Comp Ctr	VMS
LSUCHE	<u> </u>	VM/SP
LOYVAX		VMS
LUCCPUA		MVS/SP
FRLRI61	LRI-Orsay	SUN OS 3 4
NNOMED	LSU Med Ctr - New Orleans LSU Med Ctr - Shreveport	MVS/XA MVS/XA
NSHMED BDILUC11		MVS/XA VM/SP
IRMLUISS		IBM VM/SP R3 1
FRLURE51		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	VMS
MCCVM1	Macomb Comm Co	VM/SP
FARMNTON	5 - 5 - 5 - 1 - 1	VM/SP
MANVAX	Manhattan Coll	VMS
MARICOPA	1 1	VMS
MARIST	Marist Col Marist Col	VM/SP
	Marist Col	MUSIC MUSIC
	Marist Col	MUSIC
	Marist Col	VM/SP
MARISTF	Marist Col	MUSIC
MARMVS	Marist Col	MVS/XA
MARVMXA	Marist Col	VM/XA/SP
MUCSD	Marquette Univ	VMS
MUVMS1	Marshall U Comp Ctr	VMS
MITFBNML		VMS
MITVMA	Mass Inst of Tech Info Sys	VM/SP
MITRLEVM MITLNS	Mass Inst of Tech Res Lab Elec Mass Inst of Tech.	VM/SP VMS
SLOAN	Mass Inst Of Tech. Mass Inst Tech Sloan Sch of Mgmt	VM/SP
DK0UMI1	Mathem Institut Univ Koein	IBM VM/SP R4
DM0MPI11		IBM VM/SP R4 1
DGAMPE5D		VMS
HNYMPI51	Max Planck Inst Nijmegen	VMS
DM0MPF11	Max Planck Inst Psych Forsch	IBM VM/SP R3 1
HNYMPI52	Max Planck Inst., Nijmegen, NL	VMS 4 3
DGAIPP1S	Max-Planck-Institut fuer Plasm	IBM VM/SP R5
MCGILLB	McGill U	MUSIC
MCGILLC MCGILLA	McGill U Comp Contro	MUSIC MUSIC
MCGILLA	McGill U Comp Centre McGill U Comp Centre	VM/HPO
MCGILL1	McGill U Comp Ctr	VM/SP
MCGILLM	McGill U MUSIC Prod Group	MUSIC
MCGILL3	McGill U MUSIC Prod Group	VM/SP
MCGILLVS	McGill Univ CC	MVS/SP
MUSOCS	McGill Univ Comp Sci	UNIX
MCMASTER		VMS
MCMVM1	McMaster U Inf Proc Svcs	VM
TANDEM	McMaster Univ	VMS
MCOIARC	Med U.S. Caralina and in	VMS
MUSC MCO	Med U S Carolina - csx/irm Medical College of Ohio	VMS VM/SP
MEDCOLWI		VM/SP VMS
MUN	Memorial U. of NF	VMS

VMS VM/SP VM/SP

MUN Memorial U. of NF
MERIT Merit Comp Net
MIAMIU Miami U Academic Comp Service

phrack6/1	2.txt Fri Jul 01 13:24:4	19 2022	19
MIAVX2	Miami Univ Hamilton Campus VA	X	VMS
MIAVX3	Miami Univ Middletown Campus		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 R	es VAX	UNIX
MTUVAXB	Michigan Tech Univ Computer S		UNIX
MTUVAXA	Michigan Tech Univ Ctr for Ex		VMS
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 110		OS1100
MITWCCF	MIT - Whitaker College Health	Sci, Tech &	
MITVMC	MIT Admin VM/CMS		VM/SP/HPO
MITVMD	MIT Admin VM/CMS	Daograma	VM/SP
MITVBUD MITWIBR	MIT Budget, Actng, & Sponsos MIT Whitehead Instit for Biom		VMS VMS
MITBATES	MIT Wm. Bates Linear Accel La		VMS
MTSUNIX1	Montana State Univ	D	ULTRIX
	Monterrey Inst of Tech		VM/SP
TECMTYSB	Monterrey Inst of Tech		VM/SP
VMTECMEX	Monterrey Instit of Tech		VM/SP
VMTECQRO	Monterrey Instit of Tech Quer	etaro	VM/SP
MONTCOLA	Montgomery Coll		VM/SP
MONTCOLB	Montgomery Coll		VM/SP
MONTCOLC	Montgomery Coll		MUSIC/SP/VM
MTAM	Mount Allison U		MUSIC
MTA	Mount Allison U Comp Ctr		VM/SP RELEASE 3
DS0MPA52	MPA Stuttgart, Germany		DEC VMS 4 7
DM0MPB51	MPI Biochemie Muenchen		DEC VMS 4 6
DTUMPI51	MPI Biologie Tuebingen		DEC VAX VMS 4 7
	MPI Chemie		VMS
	MPI Fuer Meteorologie Hamburg		VMS
DM0MPI12 DM0MPI53	MPI fuer Physik, Muenchen MPI fuer Physik, Muenchen		IBM VM/SP R5 0 DEC VMS 4 6
DHDMPI50	MPI Kernphysik Heidelberg		DEC VMS 4 7
DHDMPI5	MPI Kernphysik Heidelberg		DEC VMS 4 7
DHDMPI5U	MPI Kernphysik Heidelberg		DEC VMS 4 6
DHDMPI5V	MPI Kernphysik Heidelberg		DEC VMS 4 7
DHDMPI5H	MPI Kernphysik Heidelberg		DEC VMS 4 7
DHDMPI5D	MPI Kernphysik Heidelberg		DEC MICROVMS 4 5
DHDMPI52	MPI Kernphysik Heidelberg		DEC VMS 4 7
DGAIPP5D	MPI Plasmaphysik Garching		DEC VMS 4 5
DS0MPI11	MPI Stuttgart, Germany		IBM VM/SP R5
MSUCEM	MSU Dept. Chemistry		VMS
MSUKBS	MSU KBS		VMS
MSUNSCL	MSU NSCL		VMS
MSUPA MSVU	MSU Physics Dept Mt St Vincent U		VMS VMS
MSRCVAX	Mt. Sinai Sch of Med Res Comp	of CHMV	VMS VMS
NCSUNE	N Caro S U Dept of Nucl Eng	OI CONI	VMS
NIU	N Ill U		MVS
NIUENG	N Ill U		VM/SP
UMDNJVM1	N J Univ. Med & Dent		VM/SP
CANADA01	N.A.C.		VM/SP
JPNNUHEP	Nagoya U HEPL		OS IV/F4 MSP
JPNNUCBA	Nagoya Univ of Commerce		VM/SP
NTIVAX	Nanyang Technological Inst		VMS
JPNCUN10	Nanzan Univ		VM/SP
JPNCUN20	Nanzan Univ		VM/SP
NASAGISS	NASA Goddard Inst Space Stud		VM/SP
IAFBIT	NASA GSFC Image Analysis Fac		VMS
SCFMVS	NASA Space & Earth Sci CC		MVS/SP
SCFVM	NASA Space & Earth Sci CC		VM/HPO MVS/SP
VPFMVS VPFVM	NASA Space & Earth Sci CC NASA Space & Earth Sci CC		WW/SP
AOVAX1	Nat'l A & I Ctr - Arecibo Obs	erv	VM/ SF VMS
			

NASVM TWNCTUCS NCARIO NIEHS NIEHSC NIEHSD	Nat'l Acad of Sci PC/Netwrk Nat'l Acad of Sci VM/SP Nat'l Chiao-Tung Univ	PC DOS VM/SP
TWNCTUCS NCARIO NIEHS NIEHSC NIEHSD		
NCARIO NIEHS NIEHSC NIEHSD	nac i onitao iang onit	VMS
NIEHS NIEHSC NIEHSD	Nat'l Ctr for Atmosph Res	VM/SP HPO
NIEHSD	Nat'l Instit of Environ Health Sci	VMS
	Nat'l Instit of Environ Health Sci	VMS
	Nat'l Instit of Environ Health Sci	VMS
	Nat'l Radio Astronomy Observ. National Chia-Tung Univ	VMS VMS
	National Institutes of Health (DEC-10)	TOPS-10
	National Institutes of Health (IBM 370)	MVS/XA
	National Institutes of Health (LSU)	VMS
	National Institutes of Health (Server 1)	VM/SP
	National Institutes of Health (Test/Dev) National Institutes of Health DCRT	MVS/XA 3PLUS
-	National Institutes of Health, NIDDK/LMB	VMS
	National Res Council	TSS/370
-	National Research Council	VAX/VMS
	National Research Council	VAX/VMS
	National Research Council National U Comp Ctr - Pisa	MVS/XA VM/SP
	National U Comp Ctr - Pisa National U Comp Ctr - Pisa	IBM MVS
	National Univ of Singapore	VM HPO 4.2
	National Univ of Singapore	VMS
	National Univ of Singapore	VMS
	National Univ of Singapore Natl Cncl Res Dev MSD	VM HPO 4.2
-	Nati Chci Res Dev MSD Natl Inst for Test and Eval	DEC VMS DEC VMS
	Natl Res Cncl Canada Comp Ctr	VM/SP
	Naval Postgrad Sch	VM/SP
	NBRF/ Georgetown Univ Med Ctr	VMS
	NBS Adv. Mfg. Res Fac.	VMS
	NBS Consolidated Scie Comp Sys NBS Ex. Networks Host	NOS VMS
	NBS Mgmt. Info. Comp. Fac.	VM/SP
	NBS Molecular Structure Model Fac	VM
	NC State Univ	VMS
	NCSI Mech & Aerospace Eng	VMS VM/SP
	NCSU Mech & Aerospace Eng NCSU Civil Eng	VM/SP VMS
	NCSU Computing Center	VMS
	NCSU Computing Center	VM/SP4
	NCSU Elec & Comp Eng	VMS
	NCSU Industrial Eng NCSU Materials Eng	VMS VMS
	NCSO Materials Eng ND Higher Ed Computer Net	VMS VM/SP
	ND Higher Ed Computer Net	UNIX
	Nevis Lab, Columbia U	VMS
	New Jersey Edu Computer Net	VM/SP
	New Jersey Edu Computer Net New Jersey Edu Computer Net	MVS/SP VM/SP
	New Jersey Edu Computer Net	VM/XA
	New Jersey Inst of Tech Conf Ctr	VM/SP
MERCURY	New Jersey Inst of Tech Conf Ctr	VM/SP
	New Mexico St U Comp Ctr	MVS/SP
	New Mexico St U Comp Ctr	VM/SP
	New Mexico St U Comp Ctr New York Psych Inst	SUNOS VM/SP
	New York U Academic Comp	VMS
NYUACF7	New York U Academic Comp	VMS
	New York U Academic Comp	VMS
	New York U Academic Comp	VMS VM/SP
	New York U CIMS New York U Comp Ctr	VM/SP VM/SP
	New York U Courant Math & Comp. Lab	VMS
NYUMED	New York U Med Ctr	VMS
	Niels Bohr Institute, Denmark	DEC VMS 4 6
	Nihon U Col of Commerce NJ Univ Med & Dent	VM/SP
	NJ Univ Med & Dent NJ Univ of Med & Dent	VSE/SP VM/SP

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	21
NOFDB NCSUMEAS NCSUSTAT	NLH-Aas, Norway North Carolina St U North Carolina St U	VM/SP R5 VMS VMS
NCSUCHE NCSUMATH NCSUADM		VMS VM/SP4 MVS/SP
NEMOVM NEMOMUS NUHUB	Northeast Missouri State Univ Northeast Missouri State Univ Northeastern U Comptng Res Ctr	VM/SP VM/SP VMS
NEUVMS NAUVM	Northeastern U Dept Physics Northern Arizona Univ	VMS VM/SP HPO
NAUVAX NUACC NUCYB	Northern Arizona Univ Northwestern Univ Vogelback Comp Ctr Northwestern Univ Vogelback Comp Ctr	VMS VMS NOS
NRCBSP NRCCIT NRCHEM	NRC Bilogical Sciences Protein NRC Cd NRC Chemistry Division	VAX/VMS VAX/VMS
NRCDRA NRCDAO	NRC Dominion Astrophysical Obs NRC Dominion Radio Astro Obs	VAX/VMS VAX/VMS
NRCHEP NRCHYD NRCIDO	NRC High Energy Physics NRC Hydraulics Lab NRC Industry Development Off	VAX/VMS VAX/VMS VAX/VMS
NRCPHY NSF	NRC Physics Division NSF	VAX/VMS UNIX
CRNLAES CERAMICS NYBVX1	NYSAES NYSC of Ceramics at Alfred Univ NYU Graduate Business School	PRIMOS VMS VMS
FROCF51 ORNLSTC CESARVAX	O.P.G.C, Clermont-Ferrand, FR Oak Ridge Nat'l Lab Oak Ridge Natl Lab Ctr Engg Sys Adv Res	DEC VMS VMS VMS
OCC OBERLIN	Oakland Comm Co Oberlin College	VM VMS
FRONI51 FROBES51 FROBOR51		VMS DEC VMS DEC VMS
FROMRS51 FRMEU51	Observatoire de Marseille, Fr Observatoire de Paris, Meudon	DEC VMS VMS DEC VMS
FRNEAB51 OCLCRSUN OHSTVMB		UNIX 4.2 BSD VM/SP
OHSTCH OHSTHR OHSTMVSA	Ohio State U Chem Dept VAX Ohio State U Ctr for Human Resource Res Ohio State U IRCC	VMS VMS MVS/SP
OHSTVMA OHSTPY	Ohio State U IRCC Ohio State U Physics Dept.	VM/SP VMS
OHSTPHRM OUACCVMB OUACCVMA		VM/SP VM/SP VM/SP
OWUCOMCN JPNONRI OSUCC	2	VMS VMS MVS/XA
UCCVMS ODUVM	Oklahoma State Univ CC Old Dominion U	VMS VM/SP
UTOPVM HHEOUH51 HHEOUH54	<u>-</u>	IBM VM/SP HPO 4 2 VMS 4 4 VMS 4 4
HHEOUH53 HHEOUH52	Open Universiteit Heerlen Open Universiteit Heerlen	VMS 4 4 VMS 4 4
DBNUOR1 ORSTATE ORSTVM	Operations Research Bonn Oregon State UCS Oregon State Univ.	IBM VM/SP R4 NOS 2.5.1-678 VM
JPNDENTU JPNOIT10 JPNOSKFM	Osaka Inst of Tech	UNIS 4.2 BSD VM/SP OS IV/F4 MSP
JPNOSAKA FINOU	Osaka Univ Ed Ctr Oulu Univ	VM/SP IBM VM/SP HPO R3 4
FINOUC FRPQT51 PACEVM	Oulu University, Finland P.Q.T., Toulouse, France Pace Univ Pleasantville-Briarcliff Camp	MICROVMS 4 6 DEC VMS VM/SP
PLU	Pacific Lutheran Univ	VMS

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	22
IPDUNIV	Padova U Comp Ctr Pan American Univ	VM/SP RELEASE 5
PANAM2 PANAM1	Pan American Univ	VMS VMS
PANAM	Pan American Univ	VMS
	Penn S U Comp Sci VLSI Dev	UNIX BSD
PSUARCH		VMS
PSUACL PSU2020		VMS TOPS-20
PSUECLC		VMS
PSUECLA		VMS
PSUECLB	5 1	VMS
PSUHCX PSUCEMD	5 1	UNIX VMS
PSUMEV	Penn St U Mech. Engr.	VMS
PSUCHEM	Penn State - Chemistry	VM/SP
PSUARLB		VMS
PSUARLC PSUARLA		VMS VMS
PSULEPSI		VMS
	Penn State Elmnt. Particle Lab	VMS
	Penn State Elmnt. Particle Lab	VMS
PSULEPSH PSUECL2		VMS VM/SP
PSUVAXG		UNIX BSD
PSUVAXS	Penn State U	UNIX BSD
PSUDG1	Penn State U	AOS/VS
PSUPENA PSUPENB	Penn State U Agric Ext Net Penn State U Agric Ext Net	VMS VMS
PSUALT		VMS
PSUVMXA	Penn State U CAC	VM/XA SP1
PSUSUN01		SUN OS 4.0
PSUED1 PSUCES1	Penn State U Coll of Ed Penn State U Comm. Ed Sys	VMS VMS
PSUCES3	Penn State U Comm. Ed Sys	VMS
PSUVM	Penn State U Comp Ctr	VM/XA
PSUCURT PSUDEC10	Penn State U CompSci Penn State U Eng Comp Lab	ACIS UNIX 4.3 TOPS-10
PSUNUCE	Penn State U Eng. Dept.	VM/SP
PSUHMC	Penn State U Hershey Med Ctr. Res. Cmptng	
PSUHMED	Penn State U Hershey Med Ctr. Res. Cmptng	
PSUMVS PSUPDP1	Penn State University Penn State University	MVS/XA UNIX R6
PSUVALP	Penn SU Comp Sci VLSI Dev	UNIX BSD
PSUVAX1	Pennsylvania State U	UNIX BSD
PEPVAX PEPPCDRM	Pepperdine Univ Acad Comp VAX Pepperdine Univ Admin Cmptng IBM MVS	ULTRIX MVS/XA
CPWPSCA	Pgh Supercomputer Ctr	VMS
CPWPSCB	Pgh Supercomputer Ctr	VMS
DMRHRZ11		IBM VM/SP R4 0
DHDPHY5 DBNPIB5	Physikalisches Institut Physikalisches Institut der U Bonn	VMS DEC VMS 4 6
ITOPOLI	Politecnico di Torino	VMS
ITOPOLI3		VMS
ITOPOLI4		VMS
ITOPOLI1 ITOPOLI2	Politecnico di Torino Politecnico di Torino	VMS VMS
IMIPOLI	Politecnico Milano	IBM VM/SP R4 1
POLYTECH	1	VM/SP
POLYGRAF POMONA	Polytechnic U Comp Ctr Pomona Col Comp Ctr	VM/SP VM/SP
PCMATH	Pomona Col Mathematics Dept	VMS
PSUORVM	Portland State Univ CC	VM/SP
PRATT	Pratt Institute Comp Ctr	PRIMOS
PPLCATS	Princeton Univ PLasma Phys. Lab	VM/SP
PUCC PUFORBES	Princeton University Princeton University	VM/SP VM/SP
PUNFS	Princeton University	VM/SP
PU1879	Princeton University	VM/SP
PUMIS DHIAVM	Princeton University PSU Dairy Herd Improv. Assn.	VM/SP VM/SP
~11 T T 1 V I T	1.5 Sally nota implove hoom.	,

QUCDNEE1 Queen's Electrical Engineering
QUCDNTRI Queen's Electrical Engineering
QUCDNEE Queen's Electrical Engineering QCVAXA Queens College CUNY QCVAXB Queens College CUNY QCVAXC Queens College CUNY QCUNIX Queens College CUNY

QCUNIX Queens College CUNY
QCVAX Queens College CUNY
QUCDNCMC Queens U Can Microelec Corp
QUCDNAST Queens Univ Astronomy QUCIS Queens University
QUCDN Queens University VM/SP
QUCDNSUR Queens University Surgery
AWIRAP01 RA-Physik VMS 4 5 LAVC
AWIRAP02 RA-Physik VMS 4 5 LAVC
DACTH51 Rechenzentrum der RWTH Aachen VMS
DKAUNI11 Rechenzentrum U Karlsruhe IBM VM/SP R4
DKAUNI46 Rechenzentrum U Karlsruhe SIEMENS BS3000 MSP 20
DKAUNI48 Rechenzentrum U Karlsruhe SIEMENS BS3000 MSP 20
REED Reed College BERKELEY UNIX
NOS QUCIS Queens University
QUCDN Queens University

REED Reed College BERKELEY UNIX
RCN Regents Computer Network NOS
IRTCORK Regional Tech College Cork VM/IS
GREARN Research Ctr of Crete VM/SP
RLG Research Libraries Grp MVS/SP
RHODES Rhodes College CC VMS
DKLUNI01 RHRK Kaiserslautern SIEMENS BS3000 MSP
DKLUNI85 RHRK Kaiserslautern, Germany SIEMENS BS2000
DKLUNI86 RHRK Kaiserslautern, Germany SIEMENS BS2000
DBNUZR1A RHRZ Uni Bonn, Germany IBM VM/SP HPO R4.2
RICECSVM Rice U Comp Sci Dept. VM/SP REED Reed College RCN Regents Computer Network

DBNUZR1A RHRZ Uni Bonn, Germany RICECSVM Rice U Comp Sci Dept.

RICE Rice Univ ICSA

ITORIPTO Ricerch e Progetti Torino

BGERUG51 Rijks Univ

HLERUL52 Rijksuniver Leiden Gorl Lab

RITVAXA Rochester Inst of Tech
RITVAXD Rochester Inst of Tech
RITVAXN Rochester Inst of Tech
RITVAXD Rochester Inst of Tech
RITVAXD Rochester Inst of Tech
RITVAXN Rochester Inst of Tech
RITVAXN Rochester Inst of Tech
RITVAX Rochester Inst of Tech
RITVAXO Rochester Inst of Tech
RITVAXO Rochester Inst of Tech (NTID)
PITVAXI Rochester Inst of Tech. RITVAXL Rochester Inst of Tech.
ROCKVAX Rockefeller University

ROHVM1 Rohm & Haas Co RHIT Rose-Hulman Inst. RHIT Rose-Hulman Inst.
RMC Royal Military College RPICMPVM RPI Ctr Mfg Prod RPICICGD RPI Graphics Center RPICICGE RPI Graphics Center

RPITSMTS RPI Info Tech Srvs

RPITSGW RPI Info Tech Srvs

DHVRRZNO RRZN, Univ Hannover, Germany
DHVRRZN1 RRZN, Univ Hannover, Germany
BANRUCO1 RUCA, Antwerpen, Belgium

DBORUB01 Ruhr-Univ Bochum

NORUNIX RUNIT

RUTHEP Rutgers U High Energy Physics
DRACO Rutgers Univ CCIS
RUTGERS9 Rutgers Univ CCIS MVS CANCER Rutgers Univ CCIS VAX ZODIAC Rutgers Univ CCIS Vax Clust
RUTVM1 Rutgers Univ CCIS VM1
BIOVAX Rutgers Univ Molecular Bio Comp Lab

BIOVAX Rutgers Univ Molecular Bio Comp Lab DACTH01 RWTH Aachen, Germany

VM/SP VMS VMS VMS VMS ULTRIX VMS VMS VMS

VM/SP VM/SP VM/SP VMS VMS 4 1 VM/SP HPO

VMS VMS VMS VMS VMS VMS VMS UNIX BSD VM/HPO VMS CP-6 VM/SP VM/SP

MTS/XA DIST 5.1C

UTX CDC NOS
IBM VM/SP R4 0
NOS 2 5

CDC NOS/VE ULTRIX 2 0 VMS

VMS MVS/SP VM/SP VMS

CDC NOS 2 4

RYERSON	Ryerson	VM/SP
DWUUNI21	RZ Uni Wuerzburg, Germany	IBM MVS 3 8
	RZS SR Srbije, Yugoslavia	IBM MVS/SP 1 3.8
SERVAX		
	5	VMS
SER	S Reg Data Ctr Tamiami Campus	OS 1100
SLUVCA	Saint Louis Univ	VMS
SALK	Salk Instit	VMS
	Sam Houston State Univ	VMS
		VMS
	Sam Houston State Univ	VMS
SAMFORD	Samford Univ	VM/SP
SDSC	San Diego Supercomputer Ctr	VMS
SCU		VMS
HASARA11		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	=	·
	<u>-</u>	VMS
JPNSUT10	Science U Tokyo - Japan	VM/SP
JPNSUT20	Science U Tokyo - Japan Kagurazaka	VM/SP
JPNSUT30	Science U Tokyo - Japan, Noda	VM/SP
JPNSUT3A		MUSIC
JPNSUT01	Science Univ of Tokyo	VM/SP
JPNICEPP	Science Univ of Tokyo ICEPP	VM/SP
BMLSCK11	SCKCEN Mol Belgium	VM/SP R4
	Scuola Normale Superiore	DEC VMS 4 3
IPISNSIB	±	VM/SP
SENECA	Seneca College	VMS
KRSNUCC1	Seoul Nat'l Univ CC	VM/HPO
SETONVM	Seton Hall U CC	VM/SP
SETONMUS	Seton Hall Univ CC	VM/SP
		•
JPNSNU10	Setsunan Univ	VM/SP
JPNSNU20	Setsunan Univ	VM/SP
SHERCOL1	Sheridan College	VMS
JPNSWU10	Showa Women's Univ	VM/SP
IMISIAM3	SIAM IFC, Milano, Italy	IBM VM/SP HPO 4 0
TMTSTWD	SIAM IFC, MITAHO, ICALY	
IMISIAM2	SIAM IFC, Milano, Italy	IBM VM/SP HPO 4 0
IMISIAM2 SFU		
SFU	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs	IBM VM/SP HPO 4 0 MTS
SFU SFUVM	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs	IBM VM/SP HPO 4 0 MTS VM/SP
SFU SFUVM ITSSISSA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX
SFU SFUVM ITSSISSA SKIDMORE	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS
SFU SFUVM ITSSISSA SKIDMORE	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VM/SP
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VMS VMS VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VMS VMS VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS VMS VMS VM/SP VMS VMS VMS VMS VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector Exp	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector Exp SLAC PCR	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC Mark-III Detector Exp SLAC PCR SLAC SLC	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector Exp SLAC PCR	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC Mark-III Detector Exp SLAC PCR SLAC SLC	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACMZ SLACMK3 SLACPCR SLACPCR SLACSLC SLACSLD SLACTBF	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLAC SLAC SLAC SLAC SLAC SLAC	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACMZ SLACMK3 SLACPCR SLACPCR SLACSLC SLACSLD SLACTBF SLACTWGM	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLAC SLAC SLAC SLAC SLAC SLAC	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACMZ SLACMK3 SLACPCR SLACSLC SLACSLD SLACTBF SLACTWGM SLACUCSD	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLAC SLAC SLAC SLAC SLC SLAC SLC SLAC SLC SLAC TBF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Expt (UCSD)	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
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SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACMZ SLACMK3 SLACPCR SLACSLC SLACSLD SLACTBF SLACTWGM SLACUCSD SLACTPCS SLACPHYS SMITH	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-II Detector SLAC SLAC SLAC SLAC SLAC SLAC SLC SLAC SLC SLAC SLC SLAC SLC SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
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SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACMZ SLACMK3 SLACPCR SLACSLC SLACSLD SLACTPCS SLACTUGM SLACTPCS SLACT	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLC SLAC SLC SLAC SLD Detector SLAC TBF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SMITH College Smithsonian Instit Soochow Univ South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC SLACSLD SLACTPCS SLACTUGM SLACTPCS SLACT	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLC SLAC SLC SLAC SLC SLAC SLC SLAC SLD Detector SLAC TBF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SMITH College Smithsonian Instit Soochow Univ South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Illinois Univ Edwardsvl	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC SLACSLD SLACTBF SLACTUGM SLACTPCS SLACTPCS SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUCVMB SIUEVM SMUVM1	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLC SLAC SLD SLAC SLC SLAC SLD Detector SLAC TSF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TOLIGNOUS SUBJECT STATE STATE SUBJECT SUBJE	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMKII SLACMZ SLACMKII SLACMZ SLACMKI SLACPCR SLACSLC SLACSLD SLACTBF SLACTUGM SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLC SLAC SLC SLAC SLC SLAC SLD Detector SLAC TEF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment Smith College Smithsonian Instit Soochow Univ South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC SLACSLD SLACTBF SLACTUGM SLACTPCS SLACTPCS SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUCVMB SIUEVM SMUVM1	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLC SLAC SLD SLAC SLC SLAC SLD Detector SLAC TSF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TOLIGNOUS SUBJECT STATE STATE SUBJECT SUBJE	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMKII SLACMZ SLACMKII SLACMZ SLACMKI SLACPCR SLACSLC SLACSLD SLACTBF SLACTUGM SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUEVM SMUVM1 SMSVMA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLC SLAC SLC SLAC SLC SLAC SLD Detector SLAC TEF SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment Smith College Smithsonian Instit Soochow Univ South Dakota State Univ Southeastern Mass Univ Southern Illinois U - Carbondale Southern Methodist U ACC Southwest Missouri State Univ	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC SLACSLD SLACTPCS SLACTUGM SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUCVMB SIUCVMB SMIUWM1 SMSVMA SMSVMB SMSVAXA	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector SLAC SLAC SLC SLAC SLD Detector SLAC SLC SLAC SLD Detector SLAC TCP/Two-Gamma Experiment SLAC TCP/2-Gamma Experiment SLAC TCP/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment Such TPC/Two-Gam	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS
SFU SFUVM ITSSISSA SKIDMORE SLACASP SLACVM SLACESA SLACHRS SLACMAC SLACMKII SLACM2 SLACMK3 SLACPCR SLACSLC SLACSLD SLACTBF SLACTUGM SLACTPCS SLACTPCS SLACPHYS SMITH SIVM TWNSCU10 SDSUVM SEMASSU SIUCVMB SIUCVMB SIUCVMS SMUVM1 SMSVMA SMSVMB	SIAM IFC, Milano, Italy Simon Fraser U Comp Svcs Simon Fraser U Comp Svcs SISSA, Trieste, Italy Skidmore College SLAC ASP Experiment SLAC Computer Center SLAC End Station A SLAC High Res Spectrometer SLAC Magnetic Calorimeter SLAC Mark-II Detector SLAC Mark-II Detector SLAC Mark-III Detector Exp SLAC PCR SLAC SLC SLAC SLD Detector SLAC SLD Detector SLAC TOP/Two-Gamma Experiment SLAC TCP/Z-Gamma Expt (UCSD) SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment SLAC TPC/Two-Gamma Experiment Such TPC/Two-Gamma Experiment Such TPC/Two-Gamma Experiment Smith College Smithsonian Instit Soochow Univ 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	IBM VM/SP HPO 4 0 MTS VM/SP UNIX UTX VMS

phrack6/1	.2.txt Fri Jul 01 13:24:49 2022	25
SWTTEGAN	Southwest Texas State Univ	VMS
STSCI	Space Telescope Science Instit	VMS
SLCSL	St. Lawrence College	VM/CMS
STLAWU	St. Lawrence Univ	VM/SP
STMARYS		VMS
STMARYTX SMCVAX	<u> </u>	VMS VMS
SPCVXA	St. Peter's Co	VMS
SESTAK	Stacken, KTH Sweden	TOPS-10/7
SSRL750	<u>-</u>	VMS
	Stanford University	MVS/XA
SUSOLAR SUWATSON		UNIX VM/SP HPO 4.2
OBERON	Stanford University	VM/SP HPO 5.0
MSUS1	State Univ System of Minnesota	VMS
SFAUSTIN	Stephen F. Austin State Univ	CP-6
SITVXB	Stevens Inst Tech	VMS
SITVXC HASARA5		VMS VMS 4
SEQZ11		IBM VM/SP R4
SEQZ21	Stockholm U Comp Ctr	IBM MVS/SP 1 3.1
SEQZ51	Stockholm U Comp Ctr	DEC VMS
SESUF51		DEC VMS
QZCOM		TOPS-10/7
SEQZ01 SEQZ02	Stockholm Univ CC Stockholm Univ CC	CDC NOS 2 4.1 LEVEL 642 CDC NOS 2 4.1 LEVEL 642
QZKOM	Stockholm Univ CC	TOPS-10/7
DBNISKP5		DEC VMS 4 4
SEGATE	SUNET	UNIX BSD4 3
FRSUN12	·	IBM VM/SP
ALBNY1VX UBVMSC	SUNY Albany CC VAX VMS SUNY Bflo CC	VMS VMS
UBVMSD	SUNY Bflo CC	VMS
	SUNY Binghamton	VMS
BINGVAXB	SUNY Binghamton	VMS
BINGVAXC		VMS
BINGVMA BINGVMB	SUNY Binghamton SUNY Binghamton	VM/SP VM/SP
SUNYBING	SUNY Binghamton	VM/SP
BINGTJW	SUNY Binghamton Sch of Engr	VM/SP
SUNYBCS	SUNY Buffalo Comp Sci Dept	UNIX BSD
SNYCENVM	SUNY Central Admin CC	VM/SP
SNYDELBA SNYBROBA	SUNY Coll of Technol at Delhi SUNY College at Brockport	MCP MCP
BROCK1P	SUNY College at Brockport - ACS	PRIMOS
SNYBUFBA	SUNY College at Buffalo	MCP 3.6.2
SNYBUFVA	SUNY College at Buffalo	VMS
SNYCANBA	SUNY College at Canton	MCP
SNYCOBBA SNYCORBA	SUNY College at Cobleskill SUNY College at Cortland	MCP MCP
SNYFREBA	SUNY College at Fredonia	MCP
SNYGENBA	SUNY College at Geneseo	MCP
GENESEO	SUNY College at Geneseo	VMS
SNYNEWBA	SUNY College at New Paltz	MCP
SNYOLDBA SNYONEBA	SUNY College at Old Westbury SUNY College at Oneonta	MCP MCP
SNYOSWBA	SUNY College at Oswego	MCP
SNYPLABA	SUNY College at Plattsburgh	MCP
SNYPLADG	SUNY College at Plattsburgh	AOS/VS
SNYPOTBA	SUNY College at Potsdam	MCP
SNYFARBA SNYMORBA	SUNY College Farmingdale SUNY College Morrisville	MCP MCP
ADMBROOK	SUNY Health Science Ctr Brooklyn	VM/SP
SACBROOK	SUNY Health Science Ctr Brooklyn	VM/SP
SNYBKADM	SUNY Health Science Ctr Brooklyn	VM/SP
SNYBKSAC	SUNY Health Science Ctr Brooklyn	VM/SP
SNYALFBA	SUNY of NY College of Tech at Alfred	MCP
SBBIOVM SBCCVM	SUNY Stony Brook Biol Sci Comp SUNY Stony Brook Comp Ctr	VM/SP VM/HPO
SBCCMAIL	SUNY Stony Brook Comp Ctr Mail	VMS

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	26
SUNYSBNP	SUNY Stony Brook Physics Dept	VMS
UBVMSA	SUNY/Bflo CC	VMS
UBVM	SUNY/Bflo CC	VM/SP
UBVMSB	SUNY/Bflo CC	VMS
UBVMS	SUNY/Bflo CC	VMS
	SUNYA EETR MVS SUNYA EETR VM	MVS/JES2 VM/HPO
HUTSUR51	SURFnet, Netherlands	VM/ HPO VMS 4 6
SWATPRM	Swarthmore College	VMS
SEARN	Sweden EARN	IBM VM/SP R4
SUNSET	Syracuse U	VMS
SUNRISE	Syracuse U	VMS
SUAIS	Syracuse U AIS	MVS
SUCAD1	Syracuse U CAD/CAM	VMS
SUHEP	Syracuse U High Energy Phys	VMS
SUZEUS	Syracuse Univ Comp. Sys.	VM/SP HPO VM/HPO
SUVM SUMVS	Syracuse University Syracuse University	MVS
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 Tarleton State Univ - DPC	VMS NOS
TARLETON HDETUD2	Tech Hoogeschool Delft	MVS/SP 1 3.4
HDETUD5	Tech Hoogeschool Delft	VMS 4 4
DB0TUI6	Tech U Berlin Infor KBS	UNIX 4 2 BSD
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		MVS/SP IBM VM/SP HPO 4 2
	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 ICSATAXA	Technische U Berlin Schiffs Tecnopolis CSATA Novus Ortus	IBM VM/SP IBM MVS/XA
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
TMPLCIS TMPLNOS	Temple U Computer Activity Temple University Computer Activity	VMS 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
TAMVENUS	Texas A&M U Comp Srvs Ctr	VMS
TAMUNIX	Texas A&M U Computing SC Texas A&M U CS/LSR	UNIX
TAMLSR TAMTCSL	Texas A&M U EE-TCSL	VMS VMS
TAMVXEE	Texas A&M U Electrical Engr	VMS
TAMNIL	Texas A&M U Learning Tech Ctr	VMS
TAMMEACA		VMS

phrack6/12	2.txt Fri Jul 01 13:24:49 2022	27
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
TCUAMUS	Texas Christian Univ	MUSIC/SP
TCUAVMS	Texas Christian Univ	VMS
TCUBVM	Texas Christian Univ	VM/SP
TTACS1	Texas Tech U Acad Comp Srvs	VMS
TTACS2 TTUVM1	Texas Tech U Acad Comp Srvs Texas Tech U Comp Facil	VMS VM/SP
TTUHSCVM	Texas Tech U Health Sci Ctr	VM/HPO
DTUPEV5A	Th Astrophysik Univ Tuebingen	DEC VMS 4 3
HDETUD1	TH Delft, Netherlands	VM/SP
JPNTOHOK	Tohoku Univ	VM/SP
JPNTHKVX	Tohoku Univ	VMS
JPNTIU01	Tokyo Intern'tl Univ	VM/SP
JPNTKUVM	Tokyo Keizai U	VM/SP
TOWSONVX	Towson State Univ	VMS
TOWSON1	Towson State Univ	VMS
TOWSON2	Towson State Univ	VMS
TRANSY	Transylvania Univ	MUSIC/SP
TRENT	Trent University	VMS
TSCVM	Trenton State Co	VM/SP
TUCC TUCCVM	Triangle U Comp Ctr Triangle U Comp Ctr	MVS/SP VM/SP
TUNL	Triangle Univ. Nuclear Lab	VMS
TRINCC	Trinity College	VMS
TRINCC2	Trinity College	VMS
TRINITY	Trinity Univ Computing Ctr	VM/SP
TRIUMFCL	TRIUMF Research	VMS 4 5
TRIUMFRG	TRIUMF Research	VMS 4 5
TRIUMFER	TRIUMF Research - ERICH	VMS 4 5
DB0TUI0	TU Berlin	XEXOX
DB0PTZ1A	TU Berlin TU Berlin Informatik SWT	VM/SP UNIX 4 3 BSD
DB010102 DBSTU1	TU Braunschweig, RZ, Germany	IBM VM/SP R4 SSI
DBSNRV0	TU Braynscqweug, 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
HEITHE5	TU Eindhoven CC, Netherlands	VMS 4 5
HEITUE51	TU Eindhoven CC, Netherlands	VMS 4 5
HEITUE1	TU Eindhoven CC, Netherlands	VM/SP
HEIIPO5 DGATUM5P	TU Eindhoven IPO, Netherlands TU Muenchen Physik	VMS 4 5 VMS
DB0TUI66	TUB Informatik ISTI	UNIX 4 2 BSD
TUFTS	Tufts U	VMS
TULIPS	Tufts Univ	VMS
TCSVM	Tulane U Comp Svcs - VM	VM/SP
TCSMUSA	Tulane U Comp Svcs Music A	MUSIC
TCSMVS	Tulane U Comp Svcs MVS	MVS/SP
AKRON	U Akron	MVS/XA 2 1.7
AKRONVM	U Akron	VM/SP HPO 5
AKRONVAX UABCMC	U Akron U Alabama B'ham - CMC	ULTRIX 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	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 U Bonn Inst Mathematik	IBM VM/SP R3 1
	U Bonn Reg Hochschul	IBM VM/SP R4 IBM VM/SP R5
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phrack6/1	2.txt	Fri Jul 01 13:24:49 2022	28
DBNRHRZ2		n Reg Hochschulrechenzent	MVS/SP
UCIPPRO		Irvine, Publ Policy Rsrch	VM/SP
UCSFBCL		San Fran Biochem Lab	• -
UCSFC255	U CA	San Fran Clin Lab	
UCSFCCB	U CA	San Fran Comp Ctr	
UCSFCGL		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 Cal	gary A C.T. Centre	MULTICS
UCDASVM1	U Cal	gary Dept Admin Servs	VM/SP
UCBEAR	U Cal	if Berkeley	UNIX BSD
UCBDOROT	U Cal	if Berkeley	UNIX BSD
UCBERNIE	U Cal	if Berkeley	UNIX BSD
UCBEROS		if Berkeley	UNIX BSD
UCBBACH		if Berkeley	UNIX BSD
UCBAMBER	U Cal	if Berkeley	UNIX BSD
UCBARPA		if Berkeley	UNIX BSD
UCBDEAN		if Berkeley	UNIX BSD
UCBDEGAS		if Berkeley	UNIX BSD
UCBBERYL		if Berkeley	UNIX BSD
UCBBIZET		if Berkeley	UNIX BSD
UCBBRAHM		if Berkeley	UNIX BSD
UCBBUDDY		if Berkeley	UNIX BSD
UCBCAD		if Berkeley	UNIX BSD
UCBCALDE		if Berkeley	UNIX BSD
UCBCARTA		if Berkeley	UNIX BSD
UCBCEVAX		if Berkeley	UNIX BSD
UCBCORAL UCBCMSA		if Berkeley if Berkeley	UNIX BSD VM/SP HPO
UCBCOGSC		if Berkeley	UNIX BSD
UCBCORY		if Berkeley	UNIX BSD
UCBDALI		if Berkeley	UNIX BSD
UCBEAST		if Berkeley	UNIX BSD
UCBESVAX		if Berkeley	UNIX BSD
UCBDAVIN		if Berkeley	UNIX BSD
UCBEULER		if Berkeley	UNIX BSD
UCBFRANN		if Berkeley	UNIX BSD
UCBGARNE		if Berkeley	UNIX BSD
UCBHOLDE		if Berkeley	UNIX BSD
UCBIC		if Berkeley	UNIX BSD
UCBICW	U Cal	if Berkeley	UNIX BSD
UCBINGRE	U Cal	if Berkeley	UNIX BSD
UCBJASON	U Cal	if Berkeley	UNIX BSD
UCBJASPE		if Berkeley	UNIX BSD
UCBJI		if Berkeley	UNIX BSD
UCBKEPLE	U Cal	if Berkeley	UNIX BSD
UCBKIM		if Berkeley	UNIX BSD
UCBLAPIS		if Berkeley	UNIX BSD
UCBLILAC		if Berkeley	UNIX BSD
UCBMATIS		if Berkeley	UNIX BSD
UCBMAXWE		if Berkeley	UNIX BSD
UCBMEDEA		if Berkeley	UNIX BSD
UCBMERLI		if Berkeley	UNIX BSD
UCBMIRO		if Berkeley	UNIX BSD
UCBMONET		if Berkeley	UNIX BSD
UCBNEWTO		if Berkeley	UNIX BSD
UCBOKEEF		if Berkeley	UNIX BSD
UCBOZ		if Berkeley	UNIX BSD

UNIX BSD

UNIX BSD UNIX BSD UNIX BSD

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UCBPEARL U Calif Berkeley

UCBQAL U Calif Berkeley

UCBRENOI U Calif Berkeley

UCBROSE U Calif Berkeley

UCBSEYMO U Calif Berkeley

UCBSHADO U Calif Berkeley

UCBSYLVI U Calif Berkeley UCBTOPAZ U Calif Berkeley UCBTULIP U Calif Berkeley

U Calif Berkeley

U Calif Berkeley

UCBSIM

UCBSRC

phrack6/1	2.txt	Fri Jul 01 13:24:49 2022	29
UCBUGS	U Calif	Berkeley	UNIX BSD
UCBUNIXS		Berkeley	UNIX BSD
UCBVANGO		Berkeley	UNIX BSD
UCBVAX		Berkeley	UNIX BSD
UCBVIOLE		Berkeley	UNIX BSD
UCBWEYL UCBZOOEY		Berkeley Berkeley	UNIX BSD UNIX BSD
UCBCED		Berkeley	SUN UNIX
UCBSOE		Berkeley	SUN UNIX
UCBSSL	U Calif	Berkeley	UNIX
UCBBKYAS		Berkeley	VMS
		Berkeley	ULTRIX
UCBJADE UCBJANUS		Berkeley Campus Berkeley Campus	UNIX BSD ULTIX
UCIVMSA		Irvine Comp Ctr	VMS
UCIVMSC	U Calif	Irvine Comp Ctr	VMS
UCLATMOS	U Calif	LA UCLA Atmos Science	VM/SP
UCLAVM	U Calif	Los Angeles Acad Comp	VM/SP
UCLAMVS		Los Angeles Acad Comp	MVS/SP
UCLAVMB UCLASSCF		Los Angeles Acad Comp Los Angeles Soc Sci Facil	VM/XA SF VM/SP
UCRVMS		Riverside Acad Comp Ctr	VM/ SF VMS
UCRPHYS		Riverside Phys Dept	VMS
UCSFCCA		San Fran Comp Ctr	UNIX BSD
UCSFHC		San Fran Hosp & Clinics	VM/SP
UCSFVM		San Francisco	VM/SP
SBHEP		Santa Barbara Comp Ctr	VMS VM/SP
UCSBVM UCSBUXA		Santa Barbara Comp Ctr Santa Barbara Comp Ctr	BSD UNIX
UCSBUXB		Santa Barbara Comp Ctr	BSD UNIX
UCSCMVS		Santa Cruz CATS IBM (MVS)	MVS/XA
UCSCHU	U Calif	Santa Cruz H&A	UNIX BSD
UCSCLICK		Santa Cruz Lick Obs	UNIX
UCSCA		Santa Cruz Unix A	UNIX BSD
UCSCC UCSCD		Santa Cruz Unix C Santa Cruz Unix D	UNIX BSD UNIX BSD
UCSCE		Santa Cruz Unix E	UNIX BSD
UCSCF	U Calif	Santa Cruz Unix F	UNIX BSD
UCSCG		Santa Cruz Unix G	UNIX BSD
UCSCH		Santa Cruz Unix H	UNIX BSD
UCSCI UCSCJ		Santa Cruz Unix I Santa Cruz Unix J	UNIX BSD UNIX BSD
UCSCK		Santa Cruz Unix K	UNIX BSD
UCSCL		Santa Cruz Unix L	UNIX BSD
UCSCM	U Calif	Santa Cruz Unix M	UNIX BSD
UCSCVM		Santa Cruz VM	VM/SP
PORTAL		Santa Cruz VM	VMS
UCSCO UCCVMA		Santa Cruz VM System-wide Admin	SUN OS VM/HPO
UCICP6		ornia Comptng Fac	CP6
BUCLLN11	U Cath I		VM/SP HPO R4 2
UCF1VM		al Florida	VM/SP
UCFCS		al Florida Comp Sci Dept	UNIX BSD
UCHIMVS1 UCHISTEM		go Computation Ctr go Crewe Laboratory	MVS/SP VM/SP
UCCCMVS	U Cincir	-	MVS/SP
UCCCVM1	U Cincir		VM/SP
IRUCCIBM	U Colle	ge Cork	VM/SP
IRLEARN		ge Dublin	VM/HPO RELEASE 4 2
COLORADO		ado Boulder Comp Svcs	VMS
COLOPHYS	U Colora U Connec	ado Boulder Physics	VMS MVS
UCONNMVS UCONNVM	U Connec		MVS VM/SP HPO
DKUCCC11		nagen Comp Ctr	IBM VM/SP R5
BMSUEM11		Etat Belgium	VM/SP R5
BLIULG11	U de Lie	=	VM/SP HPO R4 2
BLIULG12	U de Lie	=	VM/SP R4
BLIULG13 PTEARN	U de Lie	ege Belgium	VM/SP R5 IBM VM/SP
IPGUNIV		spoa Studi di Perugia	IBM VM/SP R3
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UDCVM UDCVAX		Columbia Comp Ctr Columbia VAX	VM/SP VMS
DDOINF6		and CC Dept	UNIX 4 2 BSD
DERRZE1	U Erlang		IBM VM/SP R3
UFGATE	U Florid		VMS
UFPINE	U Florid		VMS
UFENG		da Col Engr	VM/SP
UFFSC CGEUGE52	U Geneva	da Faculty Sup Ctr	VM/SP DEC VMS
HGRRUG0	U Gronin		NOS
HGRRUG5	U Gronin	ngen	VMS 4 2
UOGUELPH	U Guelph		VM/SP
UOGVAX2	U Guelph		UNIX BSD
DHVMHH1	U Hannov	ver . Comp Ctr	IBM VM/SP R2 01 ULTRIX
UHCCUX UHPLATO		Comp Ctr	NOS
UHCCMVS		Comp Ctr, Hon, USA	MVS/SP 1.3.5
UHCCVM		Comp Ctr, Hon, USA	VM/SP/HPO 4.2
UHCCVX		Comp Ctr, Hon, USA	VMS
DHDTRN1		berg Immunol Inst	IBM VM/SP HPO R4 2
FINUHCB		nki Phys Comp	VMS
UHUPVM1 UHNIX1		on Comp Ctr on Comp Ctr	VM/SP ATT
UHNIX2		on Comp Ctr	ATT
UHRCC		on Research Comp Ctr	VMS
UHRCC2		on Research Comp Ctr 2	VMS
IDUI1	U Idaho		VM/SP
NCSAVMS		cl Crt Sprcomp Appl	VMS
NCSAVMSA		cl Ctr Sprcomp Appl	VMS
NCSAVMSB UIUCNPL		:l Ctr Sprcomp Appl Jrb-Champ Nuc Phy Lab	VMS VMS
UICVM		ois Chicago	VM/SP
UICMVS		ois Chicago	MVS/SP
UICPHY		ois Chicago	VMS
UICVM2		ois Chicago	VM/SP
UICVMC		ois Chicago AISS/ACC	VM/SP
UICMVSA		ois Chicago AISS/ACC ois Comp Ctr	MVS/XA 2.1.5 VMS
UIUCHEPA		ois High Energy Physics	VMS
UIUCHEPB		ois High Energy Physics	VMS
UIUCVME	U Illino	ois Urbana-Cham Comp Svcs	VM/SP
UIAMVS	U Iowa		MVS/SP
UIAECE	U Iowa		UNIX BSD
UIAPRB UKANVM	U Iowa	s Comp Srvs	PRIMOS VM/SP
UKANMED		s Med Ctr Dpt Info Sys	VM/SP
DKAKFK51		ruhe Rechenzentrum	VMS
DKAUNI14		ruhe Rechenzentrum	IBM VM/SP R4
UKCC		cky Comp Ctr	VM/SP
UKCCB UKCCS		cky Comp Ctr cky Comp Ctr	VM/SP VM/SP HPO
UKWANG		cky DP Ctr	WANG VS
UKMA		cky Math Sci	UNIX BSD
DKIUNI0	U Kiel	-	TOPS-10
LAVALVM2	U Laval		VM/SP
HLERUL53	U Leiden		VMS 4 5
HLERUL2	U Leiden U Leiden		MVS/SP 1 3 VMS 4 1
HLERUL5 HLERUL51	U Leiden		VMS 4 1 VMS 4 1
HLERUL54		n Medical Infor	VMS 4 1
HMARL5	U Limbur		VMS 4
ULKYVM	U Louisv	ville Ctrl Comp	VM/SP
ULKYVX02		ville VAX Cluster	VMS
ULKYVX04		ville VAX Cluster	VMS
ULKYVX05 ULKYVX03		ville VAX Cluster ville VAX Cluster	VMS VMS
ULKYVX03		ville VAX Cluster	VMS VMS
ULKYVX07		ville VAX Cluster	VMS
MECAN1		Computer Appl Network	VMS
MAINE	U Maine	Computing Center	VM/SP

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	31
PORTLAND	U Maine Portland Comp Ctr	VM/SP
UOFMCC	U Manitoba Comp Ctr	
UOFMCCX	U Manitoba Comp Ctr	VM
DMARUM8	U Mannheim	SIEMENS BS
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
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	VM/SP
UMUC	U Maryland U College	VM/SP
UMASSVM	U Mass Sch of Engineering	VM/SP
UMASS	U Massachusetts at Amherst	NOS 2.5.2
DGOGWD01	U Max-Planck-Ges Goettingen	OS 1100
UMICHUB	U Mich Comp Ctr.	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 Missouri Kansas City	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	U Missouri Rolla Campus	BSD 4.3
UMSLVMA	U Missouri St. Louis Campus	VM/SP
UMSLVMB	U Missouri St. Louis Campus	VM/SP

BS2000

VMS VMS MPE V

VMS VM/SP

VMS

VMS

VMS

VMS

VMS VMS

VMS

VMS

VMS

VMS

VMS

NOS/VE

MVS/SP

VM/SP

VMS

UMSLVAXA U Missouri St. Louis Campus UMKCVAX3 U Missouri Truman UDEM U Moncton UNCCHEM U N Carolina ACS UNCVM1 U N Carolina ACS U N Carolina ACS UNCVX1 UNCSPHV3 U N Carolina Sch Publ Health UNCSPHVX U N Carolina Sch Publ Health UNCSPHV2 U N Carolina Sch Publ Health UNLARS U Nebr-Lincoln Agric Res Srv UNLAMC U Nebr-Lincoln Amer Math Comp. UNLASVAX U Nebr-Lincoln Arts & Sciences UNLVAX4 U Nebr-Lincoln CALMIT Lab UNLCDC2 U Nebr-Lincoln Comp Res Ctr UNLVAX1 U Nebr-Lincoln Comp Res Ctr

UNLPDVAX U Nebr-Lincoln Print & Dup VMS UNLTCVAX U Nebr-Lincoln Teach. Coll 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 U New Mexico Comp Ctr UNMB VMS UNFVM U North Florida Comp Svcs VM/SP

UNDHEP U Notre Dame High Ener Phys IRISHVM U Notre Dame PC Lab

IRISHMVS U Notre Dame Comp Ctr

UNLENVAX U Nebr-Lincoln Eng. Coll

UNLVAX3 U Nebr-Lincoln Eng. Coll

phrack6/1	2.	txt Fri Jul 01 13:24:49 2022	32
		Notre Dame PC Lab	VM/SP
		Notre Dame Physics Dept	VMS
NDRADLAB		Notre Dame Radiation Lab	VMS
ALASKA BANUIA51		of Alaska Comp Net of Antwerp	VMS VMS
ARIZVM1		of Arizona CCIT IBM	VM
ARIZJVAX		of Arizona CCIT VAX	VMS
ARIZRVAX	U	of Arizona CCIT VAX	VMS
UBCMTSA		of BC Admin System	MTS
UCSFC450	_	of California San Francisco of California San Francisco	ULTRIX 32M ULTRIX
UCSFUSE		of California San Francisco	UNIX
HGRRUG52	-	of Groningen	VMS 4 2
UKAG		of KY Agri Data Ctr	VM/SP
CCOL		of Ky Community Colleges	VM/SP
		of Leiden DIOS of Leiden DIOS	VMS 4 2
HLERUL55 UC780		of Maryland	VMS VMS
ECSVAX		of NC Gen'l Admin Cent Office - Educat.	-
OREGON1	U	of O CC	VM/SP
UOTELG01	U	of Ottawa Elec Eng	VMS
UTORDAIS	-	of T DAIS	VMS
UTKVX2 UTKVX3		of Tennessee of Tennessee Computing Center	VMS VMS
WATLAGER		of Waterloo, EERC	VMS
WISCAGE		of Wis, Inst on Aging	VMS
DOLUNI1		Oldenburg	IBM VM/SP R4
DOSUNI	-	Osnabrueck	CGK BS 3
UOTTAWA UOTCSI1		Ottawa Computer Ctr Ottawa Computer Sci Dept	VM/HPO UNIX
UOTCSI2		Ottawa Computer Sci Dept	UNIX
UOTADM01		Ottawa Faculty of Admin	VMS
IPACUC	-	Palermo	VM/SP
PENNDRLN		Penn DRL Comp Facil	VM/SP
PENNDRLS PENNLRSM		Penn DRL Comp Facil Penn Matter Lab	VM/SP HPO VMS
PENNHEP1	-	Penn Physics	VMS
PITTVMS		Pittsburgh Comp Info Sys	VMS
PITTUNIX		Pittsburgh Comp Info Sys	ULTRIX
EMDUPM11		Poli Madrid Ctr Calc Prince Edward Island	IBM VM/SP R4
UPEI UOAM	-	Ouebec Montreal	VMS VM/SP
UREGINA1	_	Regina Regina	VM/SP
UREGINAV		Regina	VMS 4 5
UREGINA2		Regina Dept Comp Services	UNIX BSD
UORCHEM		Rochester Chemistry VAX Rochester Comp Ctr	VMS VM/SP
UORVM UORDB2		Rochester Comp Ctr	VM/SP VMS
UORHBV		Rochester Comp Ctr	VMS
UORJVN	U	Rochester Comp Ctr	VMS
UORKV		Rochester Comp Ctr	VMS
UORKV2 UORMVS		Rochester Comp Ctr Rochester Comp Ctr	VMS MVS/SP
UORUNIX		Rochester Comp Ctr	UNIX BSD
UORDBV		Rochester Computing Ctr	VMS
UORGSM		Rochester Grad Sch Mngmnt	VM/SP
UORHEP		Rochester High Energy Physics	VMS
UOROPT SASK		Rochester Institue of Optics Saskatchewan	VMS DEC VMS 4 7
BAGAMCOK	-	South Carolina Bus College	VM/SP
UNIVSCVM		South Carolina Comp Svcs	VM/SP
KYLARA		Southern Calif	VMS
MIRRIM	_	Southern Calif	VMS
ZAPHOD GEO		Southern Calif Southern Calif	VMS VMS
BMSR		Southern Calif Biomed Simul Res	VMS VMS
RAMOTH		Southern Calif Chemistry Dept	VMS
JAXOM	U	Southern Calif Eng Dept	VMS
MOUSE		Southern Calif Engineering Sch	VMS
PERN	Ű	Southern Calif Engineering Sch	VMS

phrack6/1	2.1	txt Fri Jul 01 13:24:49 2022	33
SC	IJ	Southern Calif Engineering Sch	VMS
USCVM		Southern California	VM/HPO
USMVAX	U	Southern Maine Portland Comp Ctr	UNIX
DS0RUS1I	U	Stuttgart	IBM VM/SP R2 1
DS0RUS1P		Stuttgart	IBM VM/SP R2 1
DS0IKE51		Stuttgart Inst Kernenergetik	VMS
DSOMPA51		Stuttgart Materialpruef	DEC VMS 4 7
DS0RUS51 DS0RUS0		Stuttgart Rechenzentrum Stuttgart, Germany	VMS NOS
UTCVM		Tenn at Chatta Ctr of Excel	VM/SP
UTCMUSIC		Tenn at Chatta MUSIC Sys	MUSIC/SP
UTKVX1		Tennessee	VMS
UTKSM1	U	Tennessee	VMS
UTADNX		Texas Austin Comp Ctr	VMS
UTA3081		Texas Austin Comp Ctr	VM/SP
UTA4341 UTGATE		Texas Austin Comp Ctr Texas Austin Comp Ctr	VM/SP VMS
UTNET		Texas Austin Comp Ctr	VMS
UTAIVC		Texas Austin Comp Ctr	VMS
UTAIV1		Texas Austin Comp Ctr	VMS
UTAIV2		Texas Austin Comp Ctr	VMS
UTAIV3		Texas Austin Comp Ctr	VMS
UTAIV4		Texas Austin Comp Ctr	VMS
UTADP UTAPHY		Texas Austin Data Proc. Sys Texas Austin Physics Dept	MVS/XA VMS
UTDALVM1		Texas Dallas Acad Comp Ctr	VM/SP
UTEPA		Texas El Paso CC	VM/SP
UTEP	U	Texas El Paso Comp Ctr	VM/SP
UTSA4381		Texas San Antonio	OS/VS1
UTSAVM1		Texas San Antonio Comp Res	VM/SP
UOFT01 UOFT02		Toledo Toledo	VM/SP VMS
NORUNIT	-	Trondheim	IBM VM/SP R4
DTUZDV2	-	Tubingen ZDV BASF	MVS/SP
DTUZDV1		Tubingen Zent Datenverar	IBM VM/SP R3
UTHSCSA		TX Hlth Sci Ctr Comp Resrcs	VMS
SEUMDC01	-	UME\$	CDC NOS 2 3
HUTRUU0	-	Utrecht Utrecht Neth	AOS/VE
HUTRUU51 UVUNIX	-	Victoria UNIX	VMS 4 6
UVPHYS		Victoria VAX	
UVVM	U	Victoria VM	VM/SP
VIRGINIA	U	Virginia Acad Computing	NOS
UWACDC		Washington Acad Comp Ctr	NOS
UWAV1		Washington Acad Comp Ctr VAX1	VMS
UWAV2 UWAV3		Washington Acad Comp Ctr VAX2 Washington Acad Comp Ctr VAX3	VMS VMS
UWAV4		Washington Acad Comp Ctr VAX4	VMS
MAX		Washington Acad Comp Srvs	VMS
UWAVM		Washington Academic Comp Ctr	VM/SP
UWAIS1		Washington Admin Data Proc	VM/SP HPO
UWAMVS1		Washington Admin Data Proc	MVS/SP
UWACHEM		Washington Chemistry VAX	VMS
UWASH SAAM		Washington Cmptng. & Commun Washington Ctr for Bioeng.	VM/SP VMS
CPAC		Washington Ctr for Process Analy Chem	VMS
UWAEE		Washington Electrical Engr	VM/SP
UWAENG		Washington Electrical Engr	VM/SP
UWALOCKE		Washington Locke Comp Ctr	VMS
UWAPHAST		Washington Physics VAX	VMS
WATACS WATACO		Waterloo Arts Comp Off	VM/SP VMS
WATACO		Waterloo Arts Comp Off Waterloo Comp Svcs	VMS VM/SP
WATCSG		Waterloo Comp Sys Grp	VM/SP
WATDCSU		Waterloo Dept Comp Svcs	UNIX BSD
WATMTA		Waterloo Dept Comp Svcs	VMS
WATSCI		Waterloo Facil Science	VMS
WATMAD		Waterloo Mapping Analysis & Design	VMS
WATER WATMNET	-	Waterloo Math/ICR Waterloo MICRONET	UNIX VM/SP
	_		, ~-

phrack6/1	.2.txt Fri Jul 01 13:24:49 2022	34
UWF	U West Fla Comp Ctr	VM/SP
UWOCC1		VM/SP
WINDSOR1	U Windsor	VM/SP
	U Wisconsin Dept Physics	VMS
	U Wisconsin Madison Comp Ctr	VMS
WISCPSLA WISCPSLC		VMS VMS
DWOURZO	U Wuppertal HRZ	CDC NOS 2 3
WYOCDC1	U Wyoming	NOS
UWYO	U Wyoming	VMS
DHBRRZ41		SIEMENS BS3000 MSP 20
FRUTC51	± 2 ,	DEC VMS
DHDUB1 UCLASAUP	3. <u> </u>	IBM VM/SP R4 VM/SP
UCLACH	UCLA Chem Dept.	VMS
UCLAUE	UCLA Crystallog. Res.	VMS
UCLASTRO	UCLA Department of Astronomy	VMS
UCLAPH	UCLA Dept. of Physics	VMS
UCLAHEP UCLAIEPI	UCLA High Energy Physics UCLA IE Physics	VMS VMS
UCLASP	UCLA Space & Plasma Physics	VMS
UCLASS	UCLA Space Science	VMS
SBITP	UCSB Inst Theor Physics	VMS
UCSFCOPE		ULTRIX
BANUFS11	, 1 , 3	VM/SP
BANUIA52 UIUCVMC	±	VMS 4 5 VM/SP
UIUCVMC	UIUC - ENGR UIUC _ CSO	VM/SP VM/SP
BBRBFU01		NOS
BLIULG14	ULG, Liege, Belgium	VM/SP R5
BLIULG15	ULG, Liege, Belgium	VM/SP R5
SEUMDC51	UMDAC Umea, Sweden	DEC VMS
GRATHUN1 UNC	UNATH, ATHENS, GREECE UNC Comp Ctr	NOS 2 5.2 (678/670) MVS/SP
UNCCVM	UNCC Compt. Srvs. VM	VM/SP
GRCRUN11		VM/SP
GRCRVAX1	UNCR, Heraklion, Crete, Greece	VMS 4 3
FRUNES21	UNESCO	MVS/SP
DBTHRZ5 DERDBS5	Uni Bayreuth RZ, Germany Uni Erlangen	DEC VMS 4 6 VMS
DERBBSS DFRRUF1	UNI Freiburg, Germany	IBM VM/SP HPO R4
DGIPIG5	Uni Giessen Physik, Germany	DEC VMS 4 5
DHDURZ1	Uni Heidelberg	IBM VM/SP R5
DKAUNI5T		VMS
DKAUNIOP DKAUNIOI	` , , ,	PRIMOS REV. 20.0.4 UNIX 4 3 BSD
DKAUNI11	Uni Karlsruhe, Telematik	IBM VM/SP R3
DMZUK1	Uni Klinik Mainz, Germany	IBM VM/SP R5 0
DK0RRZK1	· · · · · · · · · · · · · · · · · · ·	IBM VM/SP R4
DKNKURZ1	Uni Konstanz, Germany	IBM VM/SP R5
HLERUL57		VMS 4 5
HLERUL58 HLERUL5I	Uni Leiden, Netherlands Uni Leiden, Netherlands	VMS 4 5 SUN OS 3 5
DMSWWU0X	Uni Muenster, Germany	IBM IX/370
DMSWWU5P	Uni Muenster, Kernphysik	VMS
HROEUR1	Uni Rotterdam, Netherlands	VM/SP R4 1
HROEUR51	•	VMS 4
CSGHSG52 CSGHSG53	Uni St Gallen, Switzerland Uni St Gallen, Switzerland	DEC VMS DEC VMS
DS0IND5	Uni Stuttgart, Germany	DEC VMS DEC VMS 4.4
DS0ITA51	Uni Stuttgart, Germany	DEC VMS 4 6
DS0RUS52	Uni Stuttgart, Germany	DEC VMS 4 5
DS0RUS54	Uni Stuttgart, Germany	DEC VMS 4 5
DSOMSV1	Uni Stuttgart, Germany	IBM VM/SP R4
DS0SYN51 DS0IFU56	Uni Stuttgart, Germany Uni Stuttgart, Germany	DEC VMS 4 6 DEC VMS 4 6
DS0IF656	Uni Stuttgart, Germany	DEC VMS 4 0
DTUMED1	Uni Tuebingen, Med. Rechenzent	IBM VM/SP
	Uni Twente	VMS 4
HUTRUU52	Uni Utrecht, Netherlands	VMS 4 6

phrack6/12.txt	Fri Jul 01 13:24:49 2022	35
CNEDCU51 Uni. No DKARH01 UNI-C, DKARH02 UNI-C, DANPOST UNI-C, DKEARN UNI-C, NEUVM1 UNI-C,	Arecht, Netherlands Euchatel, Switzerland Aarhus, Denmark (CDC) Aarhus, Denmark (VAX) Aarhus, Denmark (VAX) Lyngby, Denmark (IBM) Lyngby, Denmark (IBM)	VMS 4 4 DEC VMS CDC NOS 2 4.1-630/628 DEC VMS 4 4 ULTRIX IBM VM/SP HPO R4 2 IBM VM/SP HPO R4 2
NEUMVS1 UNI-C, USUHS Uniform UNION Union (DBNINF5 Univ Bo	Lyngby, Denmark (VAX) Lyngby, Denmark (AMDAHL) med Svrs Univ of Health Sci College onn Informatik alif Los Angeles UCLA/OAC	DEC VMS 4 5 IBM MVS/XA VMS VNS VMS VMS
UCCVMB Univ Ca UCLAAIS Univ Ca EMDUCM11 Univ Ca UCHCECVM Univ da UCHDCI01 Univ da	alif System-wide Admin alifornia LA AIS omplutense de Madrid e Chile CEC e Chile DESECI	VM/HPO MVS/XA VM/SP VM/SP VM/SP
USACHVM1 Univ de UTALCAVX Univ de	uesseldorf eorgia	DEC VMS 4 4 VM/SP VMS SIEMENS BS2000 V8 0 MVS/JES3 VSOS
LAVALVX1 Univ La LAVALMU1 Univ La DMZRZU71 Univ Ma DMSWWU1C Univ Ma UNAMVM1 Univ Na	aval aval Music Sys	VMS MUSIC/SP BULL MULTICS MR 11R IBM VM/SP HPO R5 0 VM
NUNO Univ No UNO Univ No ARIZMIS Univ o: SOVSET Univ o: ARIZEVAX Univ o:	ew Orleans Admin DP ew Orleans CRC f Arizona - MIS Dept f Arizona - Soviet Studies f Arizona College of Eng. EVAX2	PRIMOS MVS VMS VMS VMS
UAFSYSA Univ of UAFSYSB Univ of UAFMUSA Univ of UAMS Univ of	f Arkansas Little Rock f Arkansas Main Camp f Arkansas Main Camp f Arkansas Main Camp f Arkansas Med Sci f BC General Sys	VMS VM/SP VM/SP HPO MUSIC/SP VMS MTS
NOBERGEN Univ of UNCAEDU Univ of UCSCZ Univ of UCSCCRLP Univ of	f BC Library System f Bergen, Norway f Calgary f California CC Series Z f California Comp Res Lab Pger f California Comp Res Lab Vger	MTS IBM VM/SP R5 VMS VMS UNIX UNIX
UCSCCRLJ Univ of UCSCCRLS Univ of UCSCLOA Univ of UCSCERIS Univ of	f California Comp Res Lab VM f California Comp Res Lab, Jup f California Comp. Res Lab Saturn f California Lick Observ f California Physics Bd f California San Diego Acad Gatwy	UNIX UNIX 4.2
UCDAVIS Univ of UCDHEP Univ of UCHASTRO Univ of COLOLASP Univ of Univ of Uchastron	f California San Diego AdCom Op f California, Davis f California, Davis f Chicago - Astron/Astrophy f Colorad / LASP f Colorado - Colorado Springs CS	MVS/XA UNIX VMS UNIX VMS VMS
FARRAND Univ of CUDENVER Univ of UCOLMCC Univ of DAYTON Univ of DUCAIR Univ of	f Colorado Boulder - Farrand Hall f Colorado Denver f Colorado Health Sci Ctr f Dayton f Denver Comptng & Info Res	VMS VMS VMS VMS VMS
CGEUGE53 Univ of CGEUGE11 Univ of CGEUGE54 Univ of UGACDC1 Univ of	f Florida f Geneva f Geneva f Geneva f Georgia f Georgia	VMS DEC VMS IBM VM/SP DEC VMS NOS VM/SP

phrack6/1	2.txt		Fri Jul 01 13:24:49 2022	36
UGABUS	Univ	of	Georgia	VM/SP
UGAMUSIC	Univ	of	Georgia	MUSIC/SP
UGAXA			Georgia	VM/XA/SF
CCQC			Georgia	VM/SP
SREL			Georgia	VMS
TIFTON			Georgia Coastal Plains Exp Sta	VM/SP
GRIFFIN			Georgia Experiment Station	VM/SP
HARTFORD			Hartford	VMS
UHHEPG			Hawaii High Enrgy Phys Grp	VMS
FINUHB			Helsinki	VMS
ISEARN		-	Iceland	VM/SP
IDCSVAX			Idaho	VMS
UIUCSCS	-	-	Illinois Chemistry	VMS
UICBAL			Illinois Chicago Biomolec Analy La	-
UKANVAX			Kansas VAX Sys	VMS
UKPR			Kentucky Prim	PRIMOS
FINKUO			Kuopio	VMS
CLSUNI51			Lausanne	DEC VMS
UMBSKY	-	-	Mass at Boston	VMS
UMBMAP	-	-	Mass at Boston	VMS VMS
	-	-		
UMAECS			Mass, Eng. Comp Svrs	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			Minnesota Duluth	VMS
UMNHCS			Minnesota Health Comp Sci	VMS
UMNHSNOS			Minnesota Health Sci Cmptng Srvs	NOS
UMNHSNVE			Minnesota Health Sci Cmptng Srvs	NOS
UMNMOR	-	-	Minnesota Morris	VMS
SIMVAX			Minnesota Sim Resource	VMS
UMNSOM			Minnesota, Sch of Mgmt	VM/SP
UMSVM			Mississippi	VM/SP
UMSMVS			Mississippi	MVS/SP
UMSNOS			Mississippi	NOS
UMSVSOS			Mississippi	VSOS
UMSPHY			Mississippi	VMS
UNMCVM			Nebraska Med Ctr	VM/HPO
UNOMA1		-	Nebraska Omaha CC	VMS
UNOMA2		-	Nebraska Omaha CC	VMS
UNEV			Nevada Sys CC	NOS
UNB			New Brunswick	MVS/XA
UNHH			New Hampshire	VMS
UNCVAX1			North Carolina CH	VMS
UNCG			North Carolina Greensboro Acad CC	
UNTVM1			North Texas Comp Ctr	VM/SP
UNTMUSIC			North Texas MUSIC	
NTSUVAXA			North Texas VAX A	VMS
NTSUVAXB			North Texas VAX B	VMS
UOKMVSA			Oklahoma Norman	MVS/XA-JES2
UOREGON			Oregon Dept. Comp. & Info Scie,	UNIX BSD
UONEURO			Oregon Inst. of Neurosci VAX	VMS
UOXRAY			Oregon Molecular Bio VAX	VMS
OREGON			Oregon VAX 8800	VMS
UOTADM02			Ottawa	
UPRENET	Univ	of	Puerto Rico Ed Net	VMS
URVAX			Richmond	VMS
UORNSRL			Rochester	VMS
SCRANTON			Scranton Comp Ctr	VMS
SCRVMSYS			Scranton Comp Ctr	VM/SP
UDESVM			Sherbrooke	VM/SP 4
UDESMA			Sherbrooke	
UDESMB	Univ	of	Sherbrooke	
USOUTHAL			South Alabama	VM/SP
USMCP6	Univ	of	Southern Miss	CP6
UTCHP1			Tennessee - Chatta.	MPE V/E
UTKVX4			Tennessee Comp Ctr VAX4	VMS
UTKCS1	Univ	of	Tennessee Computer Sci Dept	VMS

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Fri Jul 01 13:24:49 2022
phrack6/12.txt
           Univ of Tennessee, Memphis
UTMEM1
                                                                  VMS
           Univ of Tennessee, Memphis
UTMEM2
                                                                  VMS
UTMEM3 Univ of Tennessee, Memphis
UTARLVM1 Univ of Texas - Arlington VM
                                                                  VM/SP
UTARLACS Univ of Texas Arlington
UTARLADM Univ of Texas Arlington
UTARLG Univ of Texas Arlington
UTMBEACH Univ of Texas Med Branch at Galveston
UTSW Univ of Texas Southwestern Med Ctr Dallas VMS
UTHVM1 Univ of Texas Sys Cancer Ctr
UTCHPC Univ of Texas Sys Ctr for High Perfor CmptVMS
UTARL Univ of Texas Sys Off of Telecom. Srvcs VMS
UTDAL Univ of Texas Sys Off of Telecom. Srvcs VMS
UTEPD
          Univ of Texas Sys Off of Telecom. Srvcs
UTHOU Univ of Texas Sys Off of Telecom. Srvcs VMS
UTHSA Univ of Texas Sys Off of Telecom. Srvcs VMS
UTHTYL Univ of Texas Sys Off of Telecom. Srvcs
UTMGAL Univ of Texas Sys Off of Telecom. Srvcs
       Univ of Texas Sys Off of Telecom. Srvcs
UTPB
            Univ of Texas Sys Off of Telecom. Srvcs
UTSA
UTSYS Univ of Texas Sys Off of Telecom. Srvcs
UTTYL Univ of Texas Sys Off of Telecom. Srvcs
UTSPH Univ of Texas Sys Off of Telecom. Srvcs
UTCCSP Univ of Texas Sys Off of Telecom. Srvcs
UTMSI Univ of Texas Sys Off of Telecom. Srvcs
                                                                  VMS
                                                                  VMS
THENIC Univ of Texas Sys Off of Telecom. Srvcs VMS
UTHDAL Univ of Texas Systems
                                                                  VMS
JPNUTDME Univ of Tokyo
                                                                  VM/SP
JPNUTINS Univ of Tokyo - INS
                                                                  OS IV/F4 MSP
JPNISSP Univ of Tokyo/Inst for Solid St Phy
UTORCSRI Univ of Toronto
                                                                 OS IV/F4 MSP
UTORSCG Univ of Toronto
                                                                  VM/SP
UTORSCS Univ of Toronto
                                                                   VMS
UTORGPU Univ of Toronto
                                                                   SUN BSD
UTORMCL1 Univ of Toronto
                                                                   VMS
UTORME Univ of Toronto Mech Eng
UTOROCI Univ of Toronto OCI
                                                                  UNIX
                                                                  VMS
UTORPHYS Univ of Toronto Physics
                                                                  VMS
                                                                  DYNIX
JPNTSUKU Univ of Tsukuba - SIPC
TULSA Univ of Tulsa
UTAHCCA Univ of Utah CC
UTAHBUS Univ of Utah College of Bus CC
UTAHLIB Univ of Utah Marriott Lib
UTAHMED Univ of Utah Med Sch Scie CC
UVMVM Univ of Vermont
                                                                  CP-6 C01
                                                                  VM/SP
                                                                   VMS
                                                                   VM/SP
UVMADMIN Univ of Vermont
                                                                   VM/SP
UVMVAX Univ of Vermont
                                                                   VMS
UWAJANUS Univ of Washington Astro. HST Project
UWAGEM Univ of Washington Gemini Comptng Faclty VM/SP
UWAMATSC Univ of Washington Materials Sci Comp VM/S
                                                                  VM/SP
UWAPA2 Univ of Washington Physics Theory Grp
UWOVAX Univ of Western Ontario
WINDSOR2 Univ of Windsor
                                                                   VMS
UWPG02 Univ of Winnipeg
                                                                  DEC VMS 5 0
WISCCDE Univ of Wis., Cntr. Demog.
WISCPHEN Univ of Wisc Pheno Inst
WISCGPS Univ of Wisc, Geog/PoliSci Depts
UWLAX Univ of Wisconsin - La Crosse
UWMCSD4 Univ of Wisconsin - Milwaukee
UWSTOUT Univ of Wisconsin - Stout
UWEC Univ of Wisconsin Eau Claire
                                                                  VMS
                                                                  UNIX
                                                                  VMS
                                                                  CP-6 COO
WISCSOC Univ of Wisconsin Madison Socio Dept
                                                                  VMS
OSHKOSHW Univ of Wisconsin Oshkosh
                                                                   VMS
WISCMAC3 Univ of Wisconsin, MACC
HROEUROM Univ Rotterdam
                                                                   VMS
                                                                  MUSIC/SP
EBCCUAB1 Univ. Autonoma de Barcelona DEC VMS
IMIBOCCO Univ. BOCCONI - Milano, Italy IBM VM/SP R4
FINUH Univ. of Helsinki, Finland VMS 4.5
FINUJO Univ. of Joensuu, Finland DEC VMS 4 7
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phrack6/1	2.txt Fri Jul 01 13:24:49 2022	38
FINTUVM	Univ. of Turku, Finland	IBM VM/SP R5
EBRUPC51	Univ. Politecnica de Catalunya	DEC VMS 4 5
EMDICAI1	Univ. Pontificia Comillas, Sp	DG AOS/VS 6 06
DK0RRZK0	Univer Koeln Regls Rechentrum	NOS
EMDUAHM1	Universidad Alcala de Henares	DG AOS/VS 6 06
EMDUAM12	Universidad Autonoma Madrid	IBM VM/SP R4
EMDUAM51 EB0UB011	Universidad Autonoma Madrid Universidad Barcelona - Spain	VAX-VMS 4 7 VM/SP
EBUBECM1	Universidad Barcelona - Spain	IBM VM CMS REL 5
ELEULE11	Universidad de Leon, Spain	IBM VM/SP R1 2
EOVUOV11	Universidad de Oviedo - C P.D.	IBM VM/SP R3 1
IGECUNIV		VM/SP
IMEUNIV	Universita Messina	IBM VM/SP R3 1
ICSUNIV		VM/SP
IBGUNIV IPRUNIV	Universita' di Bergamo Italy Universita' di Parma, Italy	IBM VM/SP R4 IBM VM/SP R2
IRMUNISA	Universita' La Sapienza	IBM VM/SP R4
IRMECOSA	Universita' La Sapienza	IBM VM/SP R3
IRMINGSA	Universita' La Sapienza	IBM VM/SP R3
ITNCISCA	Universita' Trento, Italy	DEC VMS 3 0
DBIUNI11		VM/SP
DHBRRZ45		SIEMENS BS3000 MSP 20
DDOHRZ21		IBM MVS/SP 1 3.3
DERRZEO	Universitaet Erlangen Universitaet Essen	CDC NOS 2 IBM VM/SP R4
DEUHRZIA DGIHRZ01	Universitaet Essen	NOS
DHHUNI4	Universitaet Hamburg, Germany	SIEMENS BS3000 MSP 20
DHHUNI1	Universitaet Hamburg, Germany	VM/SP R5
DMZRZU5P	Universitaet Mainz, Germany	DEC VMS 4 5
DSIHRZ51	Universitaet Siegen	VMS
DULRUU51	Universitaet Ulm, Germany	DEC VMS 4 5
DHDURZ2	Universitaets-Rechenzentrum	IBM MVS/SP 2 1.7
	Universitaetsklinikum Essen Universite de Fribourg, Switz	IBM VM/SP R3 DEC VMS 4 6
CFRUNI53		DEC VMS 4 6
UMTLVR	Universite de Montreal	VMS V4 6
FRUTRS51	Universite de Tours	VAX VMS
UQUEBEC	Universite du Quebec	VM/CMS 3 1
UQHULL	Universite Du Quebec A Hull	VMS
FRP8V11	Universite Paris 8	VM/SP
CGEUGE51 UNCA205	University de Geneve University of Calgary Cyber	DEC VMS VSOS
UDACSVM	University of Delaware	VM/SP
UDPLATO	University of Delaware Off of Instruct.	*
USCN	University of Georgia	NOS
UHVAX1	University of Houston	VMS
UHVAX8	University of Houston	VMS
ELROY	University of Houston	VMS
UHOU UHCL2	University of Houston University of Houston/CL	VMS VMS
UHDVX2	University of Houston/Downtown	VMS
UTKVM1	University of Tennessee	VM/SP HPO
UTOREPAS	University of Toronto	VM/SP
UTORONTO	University of Toronto	VM/SP HPO 4 2
UTORMVSB	University of Toronto	MVS/XA 2 3
UTORVM	University of Toronto	VM/SP HPO 4 2
UTORMED UTOROISE	University of Toronto University of Toronto OISE	VMS
SEUDAC21	Uppsala U Data Ctr	IBM MVS/SP 1 3.0
SEMAX51	Uppsala Univ, Sweden	DEC VMS
URIMVS	URI Academic Computer Center	MVS/SP
URIACC	URI Academic Computer Center	VM/HPO5
NCCIBM1	US EPA	MVS/XA-JES2
USGSRESV	<u> </u>	VMS
GROGHE USCMVSA	USC - Groghe USC - System MVSA	VMS OS/VS2 MVS/XA
OPCIAIADA	11.11. = 11.12.1 EUL 121.12.14	1.1.1.4.4.14.181.4.7.4.A.A

USC - Groghe VMS
USCMVSA USC - System MVSA OS/VS2 MVS/XA
USU Utah State U VMS
UTORCCIE UTORCCIE VM/SP
UVSOL UVic COMP UNIX SUN OS 3 2
UWAFRODO UW Radiation Oncology VMS

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	39
UWARITA	UW San Diego RUAC	VMS
VALPO	Valparaiso Univ	AOS
VUENGVAX	Vanderbilt U Engineering Sch	VMS
VUCTRVAX	Vanderbilt Univ CC	VMS
	Vanderbilt Univ CC	VMS
	Vanderbilt Univ CC	VMS
VUHHCL01	Vanderbilt Univ HHCL	VMS
VULIBS	Vanderbilt Univ Library Vanderbilt Univ Physics	IBM/DOS VMS
VUHEP VANDVM1	Vanderbilt Univ. A&S	VM5 VM/SP
VANDVMS1	Vanderbilt Univ. Physics	VMS
VASPSY	Vassar Col Psych and Econ	VMS
VASSAR	Vassar College	VMS
VASCHU	Vassar College	VMS
VAS780	Vassar College	VMS
VILLVM	Villanova Univ	VM/SP
VUVAXCOM	Villanova Univ	VMS
VCUMVS VCUVM1	Virginia Common U Comp Ctr Virginia Common U IBM C.C	MVS/SP VM/SP
VCUVM1 VCUJADE	Virginia Commonwealth Univ	VM/SE VMS
VCURUBY	Virginia Commonwealth Univ	VMS
VCCSHOST	Virginia Community Coll Sys	MVS/JES2
VTCS1	Virginia Tech (VPI)	VMS
VTMATH	Virginia Tech (VPI)	VMS
VTME	Virginia Tech (VPI)	VMS
VTSDA	Virginia Tech (VPI)	VMS
VTVAX3	Virginia Tech (VPI)	VMS
VTVAX5 VTVM1	Virginia Tech (VPI)	VMS VM/SP
VTVM1 VTVM2	Virginia Tech (VPI) Virginia Tech (VPI)	VM/SP
VTVM3	Virginia Tech (VPI)	VM/SP
VTHCL	Virginia Tech (VPI)	VMS
VTOPUS	Virginia Tech (VPI)	ULTRIX-32 V2
VTCNSVM1	Virginia Tech (VPI)	VM/SP
VTCC1	Virginia Tech (VPI)	VMS
BBRVKI51	VKI, Rhode-St-Genese, Belgium	VMS 4 7
VOLCANI FINVTT	Volcani Institute VTT, Finland	DEC VMS 4 5 DEC VMS 4 6
JPNWAS00	Waseda Univ	VM/SP
WSUVM1	Washington State U Comp Ctr	VM/SP
WSUVMS2	Washington State Univ - Comp. Srvs Ctr.	VMS
WSUMATH	Washington State Univ - Math Dept	VMS
WSUVMS1	Washington State Univ Comp Serv Ctr	VMS
WUNET	Washington U St Louis	VMS
WUBLUE	Washington Univ	MUSIC/SP
WUGOLD WUGREEN	Washington Univ Washington Univ	MUSIC/SP MUSIC/SP
WUMS	Washington Univ Med Sch	VMS
WUVMA	Washington University	VM/SP
WUVMC	Washington University	VM/SP
WUVMD	Washington University	VM/SP
WUVME	Washington University	VM/SP
WUVMF	Washington University	VM/SP
HDEDH1	Waterloopkundig Lab , Delft	VM/SP 4
WAYNEST1	Wayne State Univ CC	VM/SP
WEIZMANN WISVMS	Weizmann Inst Comp Ctr Weizmann Inst Dept of Chem	IBM VM/SP HPO R4 2 DEC VMS 4 3
WISDOM	Weizmann Inst Dept of Math	UNIX 4.2 BSD
WESLEYAN	Wesleyan U Net Gate Comp Ctr	VMS
WESLYN	Wesleyan University	VMS
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 WVNSVC	West Virginia Network West Virginia Network	VM/SP VMS
WVNSVC WVNVMS	West Virginia Network West Virginia Network	VMS VMS
WVNVET	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

phrack6/1	2.txt Fri Jul 01 13:24:49 2022	40
TWSUVM	Wichita State Univ CC	VM/SP
WLUCP6	Wilfred Laurier Univ	CP-6
WILLIAMA	Williams College CC	VMS
	Williams College CC Admin VAX Sys	VMS
	Williams College Comp Ctr	VMS
	WISO-RZ Uni Goettingen, Germany	IBM VM/IS R5
WPI	Worcester Poly Tech EE	ULTRIX
IBRDVM1	World Bank	VM/HPO
WSU	Wright State Univ	VMS
AWIWUW11		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	VMS
WVNWVIT	WVNET - West VA Instit of Tech	VMS
WVNWVSOM	WVNET - West VA Sch of Osteopathic Med	VMS
WVNWVSC	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	Yale U Physics Lab	VMS
	Yale Univ Med Sch	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
YSUB _	Youngstown State Univ	VM/SP
DTUZDV5A	ZDV U Tuebingen	VMS
DK0ZA1	Zentralarch Sozialfors Koeln	VM/SP
CZHRZU1A	Zurich U	IBM VM/SP
CZHRZU2B	Zurich U	IBM MVS/SP
	PENDING NODES AS OF 10/05	5/88
	TOTAL NODES = 3	

Node	Site	System		
MHC	Mount Holyoke Coll	ULTRIX		
RADFORD	Radford Univ	AOS/VS		
WWU	Western Washington Univ	BERKELEY UNIX		

Volume One, Issue Six, Phile 13 of 13

-=+^ 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 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

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 quilty 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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Volume One, Issue Six, Phile 2 of 13

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 The Mentor The Protestor

Cisban Evil Priest Kleptic Wizard The Poltergeist

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/pirategroup. 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 Byte 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.

PAP: 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 Sir Gamelord Jack The Ripper

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 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 Dr. No Eagle Eyes Judge Dredd King Blotto Mr. Modem Prince Squid Spectreman The Formatter

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 active.

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

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.

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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.

1200 Club Ware Brigade Volume One, Issue Six, Phile 3 of 13

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."

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.

Volume One, Issue Six, Phile 4 of 13

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

by The Leftist

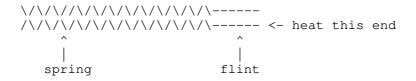
First off, let me say, that I am not responsible for any personal damage done by the use of the information in this file.

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.

Volume One, Issue Six, Phile 5 of 13

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

- 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:

ror more information on only sabotage and clacking, see the following afticles

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.

Volume One, Issue Six, Phile 6 of 13

/ /=-=-=-\ < 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, mix 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.



Volume One, Issue Six, Phile 7 of 13

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

Volume One, Issue Six, Phile 8 of 13

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/guide 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.

/ / luggo !!

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

Volume One, Issue Six, Phile 9 of 13

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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 Snop Al

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

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) _____

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.

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

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

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 $\frac{1}{2}$

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 q-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

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

From: Forest Ranger and "TeleComputist" staff,

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