==Phrack Inc.==

Volume One, Issue Six, Phile 10 of 13

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-=+^ Phrack World News ^+=-

Issue Five/Part 2

Compiled and Written By

Knight Lightning

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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)

                  Taken from Time Magazine May 12, 1986

            Reported by Jim Byers/Los Angeles and Jerome Cramer/Washington.

                    Typed for PWN's usage by The Seker
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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.
----------------------------End of Conversation----------------------------
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

password information from Sigmund. It is believed that Meola was on Stronghold
East before the MASSIVE purge several months ago.

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

Slave Driver has since sent Ralph Meola the following letter:

TO: Ralph Meeola
     Head AT&T Security

From: Slave Driver

Re: My user.

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

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

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

                Bye Ralph,

                Slave Driver

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-=+^ Phrack World News ^+=-

Issue Five/Part 3

Compiled and Written By

Knight Lightning

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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???????????
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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.

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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,

Broadway speculated that when it returns it would be run off of an Amiga.

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

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Broadway speculated that when it returns it would be run off of an Amiga.

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

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-=+^ Phrack World News ^+=-

Issue Five/Part 4

Compiled and Written By

Knight Lightning

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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
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Computer Kids, Or Criminals?

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

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

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

"After about four years of this, though, I started realizing that an entirely
new crowd had sprung up," observes Mr. Slippery, now a 19-year-old ex-hacker.
"You now have the 14 year olds who were running around destroying things seeing
how much trouble they could cause." Computer crime experts say the hacker
problem is getting worse, even though industries are increasingly reluctant to
discuss the topic. "The malicious hacker problem is continuing to increase
drastically and is getting far more serious," said Donn B. Parker, author of

Fighting Computer Crime and a computer and data security consultant at SRI
International, a California-based, non-profit research institute.

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

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

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

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

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

Maxfield estimates there are currently 50,000 hackers operating in the computer
underground and close to 1,000 underground bulletin boards. Of these, he
estimates about 200 bulletin boards are "nasty," posting credit card numbers,
phone numbers of Fortune 500 corporations, regional phone companies, banks, and
even authored tutorials on how to make bombs and explosives. One growing camp
of serious hackers is college students, who typically started hacking at 14 and
are now into drug trafficking, mainly LSD and cocaine, said Maxfield. This is
an example of a recent BBS posting:
- -
WANTED: LSD, of any kind. Leave me mail if you're willing to talk prices, I'll
take anything up to $5 a hit. $3 is more likely.

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

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

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

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

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

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

Music Major goes into more detail on later, he warns younger hackers about the
possible risks of trying a method he claims he invented: "I have called this
method foning for cards. To be convincing, you MUST have a fluent tongue and a
semi-deep voice (skip this part if your voice is still cracking--refer back
when you get a real voice)."
- -
Maxfield's operation is called BoardScan. He is paid by major corporations and
institutions to gather and provide them with pertinent intelligence about the
computer underground. Maxfield also relies on reformed hackers. Letters of
thanks from VISA and McDonald's decorate a wall in his office along with an
autographed photo of Scottie, the engineer on Star Trek's Starship Enterprise.

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

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

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

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

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


Node      Site                                     System
--------  ---------------------------------------  ---------------------------
DOCCRC                                             OS CP6
UNCACDC
UNCAMULT
EWC                                                VMS
DKATS11   Aarhus Tek Skole (ATS)                   IBM VM/SP R4
DKJAU11   Aarhus Tekniske Skole, Denmark           IBM VM/SP R4
DKAAUCHE  Aarhus Univ                              VMS
ACUVAX    Abilene Christian Univ                   VMS
FINABO    Abo Akademi                              DEC VMS 4 3
ACADIA    Acadia U                                 NOS
IMIAGIP1  AGIP S p.A.                              IBM MVS/XA V 2 1.5
ALBION    Albion College                          VMS
ALCANKTN  Alcan Int Ltd KRDC                       VMS
FINALKO   Alko Research Lab , Finland              IBM MVS/XA
ALLEGVM   Allegheny Col                            VM/SP
EB0UAB51  Altes Energies-U A. Barcelona            DEC VMS
APSEDOFF  American Physical Soc                    UNIX BSD
AUVM      American University                      VM/SP HPO
AUVM2     American University                      VM/SP
AMHERST   Amherst College Acad Comp Ctr            VMS
TRANAVM1  Anadolu Univ                             VM/SP R 5
TRANAVM2  Anadolu University, Eskisehir            IBM VM/SP R5
ANNENRES  Annenberg Res Instit                     UNIX
APPSTATE  Appalachian State U                      VMS
ANLCMT    Argonne Chemical Tech Div                VMS
ANLCHM    Argonne Chemistry Division               VMS
ANLHEP    Argonne High Energy Physics Div          VMS
ANLMST    Argonne Materials Sci and Tech           VMS
ANLNBI    Argonne Nat Lab Admin NBI                UNIX BSD
ANLADM1   Argonne Nat Lab Admin NBI 1              OASYS
ANLADM2   Argonne Nat Lab Admin NBI 2              OASYS
ANLEES1   Argonne Nat Lab EES NBI                  OASYS
ANLNBI2   Argonne Nat Lab EES NBI                  UNIX BSD
ANLEES2   Argonne Nat Lab EES NBI                  OASYS
ANLEES3   Argonne Nat Lab EES NBI                  OASYS
ANLEL     Argonne Nat Lab Elec Div                 VMS
ANLEES    Argonne Nat Lab Ener & Environ           VMS
ANLNESC   Argonne National Energy Sfw Ctr          VM/SP
ANLOS     Argonne National Lab                     MVS/SP
ANLVM     Argonne National Lab                     VM/SP
ANLVMS    Argonne National Lab                     VMS
ANLCV1    Argonne National Lab Cluster VAX         VMS
ANLEMC    Argonne National Lab Electron Mic Ctr    VMS
ANLVG     Argonne National Lab VAX Gateway         VMS
ANLPHY    Argonne Physics Division                 VMS
ANLPNS    Argonne Pulsed Neutron Src Proj          VMS
ASUIC     Arizona St U Info Ctr                    VM/SP
ASUCP1    Arizona State - U Chem/Phys/Solid State ScVMS
ASUACAD   Arizona State U                          VM/SP
ASUERC    Arizona State U Eng Comp Ctr             VM/HPO
ASUCP2    Arizona State U Lib Arts & Sci Res Cmpt FaVMS
ASUACVAX  Arizona State Univ Acad VAX              VMS
FRIHAP31  Assistance Publique                      IBM MVS/SP
ACMVM     Assoc Computing Machinery                VM/SP
AUDUCVAX  Auburn Univ                              VMS
AEARN     Austria EARN                             VM/SP
BABSON    Babson Coll                              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
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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    Bentley College                      PRIMOS
CBEBDA3T   Berne University                     IBM MVS/SP
CBEBDA3C   Berne University                     IBM MVS/SP
BGUEE      BGU Electrical Eng.                  DEC VMS 3 7
TRBILUN    Bilkent University, Ankara           AOS/VS V 7.57
TECHMAX    Biomed Engineering Technion          DEC VMS
BRCVAX     Biotech Res Ctr                      VMS
BITNIC     BITNET NIC                           VM/SP
INTERBIT   BITNET-Internet Gateway              VM/SP/HPO
BITNETDC   BITNIC Demo                          VM/SP
BNR        BNR Information Systems              VM/SP
TRBOUN     Bogazici Univ                        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             VMS
BUCHMB     Boston U Chem Dept VAX B             VMS
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             VM/SP
BGSUOPIE   Bowling Green State Univ             VMS
BRANDLOG   Brandeis Univ Administration (LOGOS) VMS
BRANDEIS   Brandeis Univ Feldberg Comp Ctr BINAH VMS
BYULAW     Brigham Young U Law Sch              VMS
BYUSTAT1   Brigham Young Univ                   VMS
BYUADAM    Brigham Young Univ                   UNIX
BYUSTAT2   Brigham Young Univ                   VMS
BYUSTAT3   Brigham Young Univ                   VMS
BNLDAG     Brookhaven Nat Lab                   VMS
BNL        Brookhaven National Lab              UNIX BSD
BNLVMA     Brookhaven National Lab              VM/SP
BNLCHM     Brookhaven National Lab              VMS
BNLCL1     Brookhaven National Lab              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   Bucknell U Comp Services             CP6
BKNLVMS    Bucknell U Comp Services             VMS
BYUCOAL    BYU Combust Lab VAX                  VMS
BYUETIBM   BYU Eng College                      VM/SP
BYUADMIN   BYU ISS                              VM/SP
BYUVAX     BYU ISS VAX                          VMS
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BYULIB     BYU Library                            VM/SP
IPVCCN     C.C.N. Pavia, Italy                    IBM VM/SP R5
FRCCSC21   C.C.S.C, Strasbourg                    MVS
FRCCSC13   C.C.S.C, Strasbourg, France            IBM VM/SP5
FRCCSC12   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
FRCIME51   C.I.M.E., Grenoble, France             DEC VMS
FRCIIL71   C.I.R.I.L., Nancy, France              BULL MULTICS
ICSCRAI    C.R.A.I., Rende, Italy                 IBM MVS/SP 3 8
IPACRES    C.R.E.S. - Palermo, Italy              DEC VMS
INAMVSXA   C.R.I.A.I. Napoli - Italy              IBM MVS/XA
INACRIAI   C.R.I.A.I. Napoli - Italy              IBM VM/SP
FRIHBO11   C.R.I.H.                               VM/SP
FRIHMA21   C.R.I.H. de Marseille, France          IBM MVS
IBACSATA   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
CITDEIMO   Caltech Astronomy DEIMOS
CITPHOBO   Caltech Astronomy PHOBOS               VMS
CITJULIE   Caltech CCO                            VMS
CITROMEO   Caltech CCO                            VMS
CITIAGO    Caltech CCO IAGO                       VMS
HAMLET     Caltech C3P/CCO                        VMS
CITHEX     Caltech HEP                            VMS
CITCHEM    Caltech XHMEIA                         VMS
CANISIUS   Canisius College CC                    VMS
CARLETON   Carleton U                             CP-6
CMASV1     Carnegie Mellon U Comp Srvs            VMS
DRYCAS     Carnegie Mellon Univ Comp Clb          VMS
CMUCCVMA   Carnegie-Mellon U Comp Ctr             VM/SP
CWRU       Case Western                           VMS
CUA        Catholic Univ of America CC            VMS
CUAVAXB    Catholic Univ of America CC            VMS
CUAVAXA    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
EMDCSIC1   Centro de Calculo                      NOS 2-5-3
IPGCUIC    Centro U Itialia Centrale              IBM VM/SP R3 1
LUXCEP11   CEPS, Walferdange                      VM/SP
FRTLS12    CERFACS                                VM/SP
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
CRVXP173   CERN P173 Exp                          VMS
CRUXNMC    CERN P173 Experiment                   DEC VMS
CRUXNMCE   CERN P173, Geneva, Switzerland         DEC VMS
CRUXNMCD   CERN P173, Geneva, Switzerland         DEC VMS
CRUXNHD    CERN P173, Geneva, Switzerland         DEC VMS
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CRUXHYPM   CERN P173, Geneva, Switzerland          DEC VMS
CRUXNMC1   CERN P173, Geneva, Switzerland          DEC VMS
CRUXNMC2   CERN P173, Geneva, Switzerland          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
FRCICG71   CICG, Grenoble                          BULL MULTICS
FRGREN81   CICG, Grenoble, France                  CDC
FRNICE51   CICNT, Nice, France                     VMS
FRCIRP71   CICRP, Paris, France                    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    CINECA - Bologna                        RSX11-M
ICINECA3   CINECA - Bologna, Italy                 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   Citadel Military Co of SC               VMS
FRCITL71   CITI Lille                              BULL MULTICS
FRCITI51   CITI 2                                  VAX VMS
CLARGRAD   Claremont Grad School Comp Ctr          VMS
CLARMATH   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       Clarkson U ERC                          UNIX
CLMIE      Clarkson Univ MIE                       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   CMU Geneve                              DEC VMS
CMPHYSME   CMU Med Energy Physics                  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   CNRS-LITP, Paris, France                VM/SP R5
FRPOLY11   Cntr Info Ecole Polytech                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      Col William Mary Enrgy Grp              VMS
CSHLAB     Cold Spring Harbor Lab                  VMS
COLGATEU   Colgate Univ                            VMS
FRCDF51    College de France, Paris                DEC VMS
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CMR001     College militaire royal              CP-6
CODVM1     College of DuPage Comp. Srvs         VM/SP
HLYCRSS1   College of the Holy Cross            VM/SP
HLYCROSS   College of the Holy Cross            VMS
MINES      Colorado Sch Mines                   VMS
CSUGREEN   Colorado State U
CSUGOLD    Colorado State U
CSU205     Colorado State U                     VSOS 2.3
COLOSTAT   Colorado State U
CUCCVX     Columbia U Admin Dept                VMS
CUGSBVAX   Columbia U Bus Sch Futures Ctr       VMS
CUCHEM     Columbia U Chemistry Dept            VMS
CUCHMB     Columbia U Chemistry Dept            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      Columbia U Ctr for Comptng Act       VMS
CUGSBVM    Columbia U Grad Sch Business         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     Columbia U Physics Dept              VMS
CUSB       Columbia U Stony Brook Exp - CESR    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   Connecticut Coll                     ULTRIX
CTSTATEU   Connecticut State Univ Sys           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   Cornell U Computer Services          VM/SP/HPO
CORNELLC   Cornell U Computer Services          VM/SP/HPO
CRNLASTR   Cornell U Dept of Astronomy          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   Cornell U Production Supercomp Facil VM/XA/SF
CORNELLD   Cornell U Supercomputer Facil        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    Cornell Univ Ctr Theory & Simul in Sci & EUNIX BSD
CRNLCHES   Cornell Univ HESS                    VMS
CRNLASSP   Cornell Univ LASSP                   UNIX BSD
CRNLNUC    Cornell Univ LNS                     SUNOS UNIX
CRNLMSC2   Cornell Univ Materials Sci Ctr       CONVEX UNIX
CRNLMSC3   Cornell Univ Materials Sci Ctr       CONVEX UNIX
CRNLEE     Cornell Univ Sch Elec Eng            UNIX BSD
CRNLTHRY   Cornell Univ Theory Ctr.             UTX/32
FRIHRO21   CRIH de Haute Normandie              MVS
FRIHVG11   CRIH de Villeneuve St. George        VM/SP
FRCRN51    CRN - DIHE, France                   DEC VMS
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ITOCSIP   CSI Piemonte, Torino, Italy            IBM MVS/SP 3 8
ILCTEHOL  CTE, HOLON                             VMS
SECTHF51  CTH Gothenburg, Sweden                 DEC VMS
FRCTHO11  CTHO, Orsay, France                    IBM VM/SP
GRPATVX1  CTI, Computer Engineering Dept         VMS
CATE      Ctr for Adv Tech Educ                  VM/SP
BBADMIN   CUNY - Baruch Col Admin Comp Ctr       VM/SP
BBADMIN2  CUNY - Baruch Col Admin Comp Ctr       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 - Bronx Community College         VM/SP
BKLYN     CUNY - Brooklyn College                VM/SP
BKLYNMVS  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   CUNY - City College of NY              UNIX
CCNYVAX1  CUNY - City College of NY              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    CUNY - Lehman College                  VM/SP
NY001     CUNY - New York City Tech Col          VM/SP
QUEENS    CUNY - Queens College                  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
CUNYVMV2  CUNY University Computer Ctr           VM/SP/HPO
HOSTOS    CUNY University Hostos Comm. Coll      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     CWI Amsterdam                          UNIX
FRDRFG01  D.R.F. , Grenoble, France             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   Danish Hydraulic Inst                  IBM VM/SP
DKSFI11   Danish Ntl Inst Social Res             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                           VMS
DEPAULO   De Paul Univ                           VMS
DECUSA    DECUS Symposium Demo Node              VMS
DECUSB    DECUS Symposium Demo Node              VMS
DECUSC    DECUS Symposium Demo Node              VMS
DECUSD    DECUS Symposium Demo Node              VMS
DECUSE    DECUS Symposium Demo Node              VMS
DECUSF    DECUS Symposium Demo Node              VMS
DECUSG    DECUS Symposium Demo Node              VMS
DECUSH    DECUS Symposium Demo Node              VMS
DECUSI    DECUS Symposium Demo Node              VMS
DECUSJ    DECUS Symposium Demo Node              VMS
D00DEMO   Demo Node Germany
DENISON   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  Deutsches Krebsforschungszentr         IBM VM/SP HPO R4 2
DFNGATE   DFN Gateway at GMD DA, Germany         IBM VM/SP R4
DFVLRBS1  DFVLR Braunschweig                     IBM VM/SP HPO
DFVLRGO1  DFVLR Goettingen                       IBM VM/SP HPO
DFVLRKP1  DFVLR Koeln-Porz                       IBM VM/SP HPO
DFVLRLA1  DFVLR Lampoldshausen, Germany          IBM VM/IS
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DFVLROP2  DFVLR Oberpfaffenhofen                IBM MVS/XA
DFVLRST1  DFVLR Stuttgart                       IBM VM/SP HPO
DKDHI12   DHI, Horsholm, Denmark                IBM VM/SP
DICKINSN  Dickinson College                     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  DNL Leidschendam, Netherlands         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
FREMBL51  E.M.B.L. Grenoble, France             VMS
FRERB51   E.N.S.E.R.B., Talence, France         DEC VMS
FRENSL61  E.N.S.L                               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
FRULM52   Ecole Normale Superieure Paris        VMS
POLYTEC1  Ecole Polytechnique                   MUSIC
POLYTEC2  Ecole Polytechnique                   MUSIC
POLYTEC3  Ecole Polytechnique                   MUSIC
POLYTECA  Ecole Polytechnique VM                VM/SP
FRESCR51  Ecole Sup de Commerce                 DEC VMS
FRESE51   Ecole Super d'Elec                    DEC VMS
IECSEC    ECSEC IBM Rome                        IBM VM/SP HPO 3 4
RUIPC1E   EDS Deutschland GmbH, Germany         IBM MVS/XA 2 1.3
ECNCDC    Edu Computing Network of IL           NOS
CIEARN    Educat & Research, Ivory Coast        VM/SP
EDUCOM    EDUCOM                                VMS
EDUCOM2   EDUCOM                                VM/SP
AMBER88   EDUCOM '88 Prime Demo                 PRIMOS
EDUCOMDW  EDUCOM 88 Conf. Demo Node             VMS
EDUCOM88  EDUCOM 88 Conf. Demo Node             VMS
AWIUNI11  EDV Zentrum U Wien                    IBM VM/SP HPO R4 2
AWIBOK01  EDV-Zentrum Boku Wien                 PRIMOS
AWITUW02  EDV-Zentrum TU Wien                   NOS/VE 1 3.1
AWITUW01  EDV-Zentrum TU Wien                   NOS/VE 1 3.1
AINUNI01  EDV-Zentrum Uni Innsbruck             NOS/VE 1 3
TREARN    Ege Univ                             VM/SP
CLSEPF51  Eid Tech Hoch Lausanne                DEC VMS
CZHETH5A  Eidgen Tech Hoch Zuerich              VMS
CAGEIR5A  EIR, Wuerenlingen, Switzerland        VMS
EPRI      Electric Power Res Inst               VM/SP
DHHEMBL5  EMBL Hamburg, Germany                 DEC VMS 4 6
DHDEMBL   EMBL Heidelberg, Germany              VMS
EMUVM1    Emory U Comp Ctr – VM1                VM/SP
EMUVM2    Emory U Comp Ctr – VM2                VM/SP
EMORYU1   Emory U Comp Ctr UNIX1                UNIX BSD
EMORY     Emory U Math and CS                   BERKELEY UNIX
EMRYCC    Emory Univ Comp Ctr VMS VAX           VMS
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EMORYU2    Emory Univ Comptng Ctr                      UNIX
EMRCAN     Energy Mines & Resources Can                VMS
HPEENR51   ENR, Petten, Netherlands                    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   ESA/ESRIN Frascati, Italy                   IBM VM/SP R4
FRESA10    ESA, France                                 IBM VM/SP R3 1
DGAESO51   ESO, Garching                               VMS
ESASTSP    ESTEC / STSP Project                        VM/SP HPO4 2
FRESTP11   ESTP, Paris, France                         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
CZHETH1A   ETHZ/IHP                                    IBM VM/SP HPO 4 2
ROSEDALE   ETS                                         VMS
DHDEMBL5   European Molecular Biology Lab              VMS
ITSOGS     Exp. Geophys. Observ. Trieste               IBM VM/SP R4
ERENJ      Exxon Res & Eng Co                          VM/SP
EREVAX     Exxon Res & Eng Co                          VMS
FRFUPL11   F.U.P.L. de Lille, France                   IBM VM/SP R4
IFISTAT    Fac. Econ e Comm Firenze                    IBM VM/SP R5
DAAFHT1    Fachhochschule Aalen                        VM/SP
DHNFHS1    Fachhochschule Heilbronn                    IBM VM/SP R3
DKAFHS1    Fachhochschule Karlsruhe                    IBM VM/SP R4
DMAFHT1    Fachhochschule Technik Mannheim             IBM VM/SP R4 0
DWIFH1     Fachhochschule Wiesbaden                    IBM VM/SP R3
BNANDP11   Facultes U Notre Dame de la Paix Namur BelVM/SP R5
BNANDP10   Facultes U Notre Dame Namur                 VM/SP R5
IRMFAO00   FAO                                         IBM VM/SP R4 2
DULFAW1A   FAW Ulm, Germany                            VM/SP R4 5
DS0FBD11   FBD – Schulen Gemein GMBH                   IBM VM/SP R3
FDACFSAN   FDA, CFSAN                                  VM/SP
FNALA      Fermi Natl Accelerator Lab                  VMS
FNALDBG    FERMI Natl Accelerator Lab                  VMS
FNAL       Fermilab                                    VMS
FNALB      Fermilab                                    VMS
FNALBSN    Fermilab                                    VMS
FNALB0     Fermilab                                    VMS
FNALC      Fermilab                                    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   Fermilab                                    VMS
FNAL01     Fermilab                                    VMS
FNAL03     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      Fermilab                                    VMS
FNCCF      Fermilab                                    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     Fl St U Spr-comp Frnt-end Sys               NOS
FSURAI     FL State U Rsrch Instrtnl Sys               NOS
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FSUSUP    FL State U Super Comp Sys                  VSOS
NERVM     Florida NE Reg Data Ctr                    VM/SP
NER       Florida NE Reg Data Ctr                    MVS/XA
FSU       Florida State U                            VM/SP
BEARN2    FNRS/NFWO, Brussels, Belgium               VM/SP
FORDMULC  Fordham Univ                               VMS
FORDMURH  Fordham Univ                               VMS
FANDM     Franklin and Marshall Coll                 VMS
FANDMA    Franklin and Marshall Coll                 VMS
FANDMB    Franklin and Marshall Coll                 VMS
FANDMC    Franklin and Marshall Coll                 VMS
FHCRCVM   Fred Hutchinson Cancer Res Ctr             VM/SP
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                       DEC VMS
DB0FUB03  FU Berlin ZEDAT CDC                         CDC NOS/BE 1 5
DB0FUB11  FU Berlin ZEDAT CDC, Germany               IBM VM/SP
GALLUA    Gallaudet Univ Comp Svcs                   VMS
GALLUB    Gallaudet Univ Comp Svcs                   VMS
GALLUE    Gallaudet Univ Comp Svcs                   VMS
FRGAN01   GANIL, Caen, France                        MAX32 REV A 1
GECRDVM1  GE R&D                                     VM/SP
CGEHCU61  Geneva Hospital, Switzerland               UNIX
GMUVAX    George Mason U                             VMS
GWUVM     George Washington U Comp Ctr               VM/SP
GUVM      Georgetown U Acad CMS                       VM/SP
GUVAX     Georgetown U Acad VAX                       VMS
GSUMVS1   Georgia State U - MVS1                      MVS/XA
GSUVM1    Georgia State U - VM1                       VM/SP
GSUVM2    Georgia State Univ CC VM2                   VM/SP
GITVM2    Georgia Tech CAE/CAD Lab                    VM/SP
GITCDC1   Georgia Tech Comp Svcs                      NOS
GITCDC2   Georgia Tech Comp Svcs                      NOS
GITNVE2   Georgia Tech Comp Svcs                      NOS/VE
GITATT1   Georgia Tech Computing Svcs                 UNIX SYSTEM V
GITVM1    Georgia Tech Computing Svcs                 VM/SP/HPO
GTRI01    Georgia Tech Research Inst.                 VM/SP
DBNGMD21  Ges. Mathematik Datenv Bonn                MVS/SP
DDAGMD11  Ges. Mathematik Datenv Darmstadt           IBM VM/SP R4
DEARN     Gesellschaft fuer Schwerionenf             IBM VM/SP R5
DDAGSI3   Gesellschaft fuer Schwerionfor             IBM MVS/XA 2 1.3 VFE
FRGETA11  GETA                                       VM/SP
GBURG     Gettysburg Coll                            VMS
DGHGKSS4  GKSS, Geesthacht, Ger                      SIEMENS BS3000 E 40
DBNGMD12  GMD Bonn, Germany                          IBM VM/SP R5
SEGUC11   Gothenburg U Comp Ctr                      IBM VM/SP R2
SEGUC21   Gothenburg U Comp Ctr                      IBM MVS/SP 1 3.3
UKACRL    Great Britain EARN London                  IBM VM/SP R3
FRPROG61  GRECO Programmation Bordeaux               UNIX
GRIN2     Grinnell College - Admin                   VMS
GRIN1     Grinnell College Academic                  VMS
FRGAG51   Groupe Astrophysique Grenoble              VMS
DGAGRS2A  GRS Garching                               IBM MVS/XA
DK0GRS11  GRS Koein                                  VM/SP
DM0GSF11  GSF Muenchen                               VM/SP
DM0GSF51  GSF-MEDIS                                   VMS
DDAGSI5   GSI Darmstadt VAX                          DEC VMS 4 3
DDAGSI1   GSI Darmstadt, Germany                     IBM VM/SP R4 0
DDAGSI1O  GSI Darmstadt, Germany                     IBM VM/SP R4 0
GACVAX1   Gustavus Adolphus Coll                     VMS
DGOGWDG1  GWD Goettingen, Germany                    IBM VM/SP R4
DGOGWDG5  GWD Goettingen, Germany                    DEC VMS
GWUVAX    GWU - School of Eng.                        VMS
SEASVM    GWU - School of Eng. IBM                    VM/SP
HADASSAH  Hadassah U Hospital                        DEC VMS
DB0HMI41  Hahn-Meitner-Institut Kerforschung         SIEMENS BS3000 MSP 10
HAIFAUVM  Haifa University                           IBM VM/SP R4 1
HAMPVMS   Hampshire College                          VMS
KRHYUCC1  Hanyang Univ                               VMS
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HUSC5      Harvard HASCS                             VMS
HUSC2      Harvard HASCS                             BSD UNIX 2.9
HUARP1     Harvard U Atmos Res Project               VMS
HARVBMB    Harvard U Biochem & Molecul Bio           UNIX BBN
HARVJMMY   Harvard U Biostat Res Cmptng              ULTRIX
HARVBUS1   Harvard U Bus Sch                         VM/SP
HUCHE1     Harvard U Chemistry VAX1                  VMS
HARVARD    Harvard U Computer Science                UNIX BSD
CFA2       Harvard U Ctr Astrophysics                VMS
CFA3       Harvard U Ctr Astrophysics                VMS
CFA        Harvard U Ctr Astrophysics                VMS
CFAAMP     Harvard U Ctr Astrophysics                VM/SP
CFA4       Harvard U Ctr Astrophysics                VMS
CFA5       Harvard U Ctr Astrophysics                VMS
CFA6       Harvard U Ctr Astrophysics                VMS
CFA7       Harvard U Ctr Astrophysics                VMS
CFA8       Harvard U Ctr Astrophysics                VMS
CFAPS2     Harvard U Ctr Astrophysics                VMS
HARVPCNA   Harvard U Faculty Arts & Sciences         MS-DOS
HUGSE1     Harvard U Grad Sch of Ed                  VMS
HARVHEP    Harvard U High En Physics Lab             VMS
HUHEPL     Harvard U High Energy Physics             VMS
HUXTAL     Harvard U Mole Bio Cmptng.                VMS
HARVARDA   Harvard U OIT                             VM/SP
HUSSLE     Harvard U Physics Dept                    VMS
HARVUNXW   Harvard U Psychology Dept                 UNIX BSD
HARVUNXC   Harvard U Psychology Dept                 UNIX
HARVUNXU   Harvard U Science Center                  UNIX BSD
HUSC6      Harvard U Science Ctr                     UNIX
HULAW1     Harvard U Science Ctr                     VMS
HUSC3      Harvard U Science Ctr                     VMS
HUMA1      Harvard U Science Ctr                     UNIX BSD
HUSC7      Harvard U Science Ctr                     ULTRIX
HUSC8      Harvard U Science Ctr                     ULTRIX
HUSCGW     Harvard U Science Ctr BITNET Mail Gtwy    VMS
HARVUNXT   Harvard U Sociology Dept                  UNIX BSD
HARVSPHA   Harvard Univ Health Sci. Cmptng. Fac.     ULTRIX
HARVSPHB   Harvard Univ Health Sci. Cmptng. Fac.     ULTRIX
FOURCC     Harvey Mudd Col Comp Services             VMS
HMCVAX     Harvey Mudd Col Comp Srvs                 VMS
ECHMC      Harvey Mudd Col Eng Dept                  VMS
FROSH      Harvey Mudd Col Eng Dept                  VMS
YMIR       Harvey Mudd Col Math Dept                 VMS
HECMTL01   Hautes Etudes Commerciales
HVRFORD    Haverford Col Acad Comp Ctr               VMS
DKHHA      HDC Aarhus                                VMS
HUJINIX    Hebrew U Comp Cnt Unix                    UNIX BSD 4 2
HBUNOS     Hebrew U Comp Ctr                         NOS
HUJIVMS    Hebrew U Comp Ctr                         DEC VMS
HUJICS     Hebrew U Computer Sci                     UTX 32
HUJIAGRI   Hebrew U Faculty of Agriculture           DEC VMS
HUJIFH     Hebrew U Fritz Haber Molec Dyna Ctr       UNIX BSD 4 2
HUMUS      Hebrew U Jerusalem Comp Sc                UNIX BSD 4 2
HUJINOS2   Hebrew U Jerusalem, Israel                NOS
HUJIMD     Hebrew U Medical School                   DEC VMS
BATATA     Hebrew U Molecular Ctr                    UNIX BSD 4 2
HUJIPRMA   Hebrew U Mount Scopus Comp Ctr            PRIMOS
HUJIPRMB   Hebrew U Mount Scopus Comp Ctr            PRIMOS
HUJIVM1    Hebrew University                         VM/CMS
FINGATE    Helsinki U Tech                           UNIX
FINHUTA    Helsinki U Tech                           IBM VM/SP R4
FINHUTC    Helsinki U Tech Finland                   IBM VM/SP R4
FINHUT     Helsinki Univ of Tech                     IBM VM/SP R5
FINHUTCS   Helsinki University of Techn              UNIX 4 3 BSD
FINHUTEE   Helsinki University of Techn              UNIX 4 3 BSD
FINHUTIT   Helsinki University of Techn              UNIX 4 3 BSD
JPNHIROA   Hiroshima Univ                            VM/HPO
DDATHD21   Hoch TH Darmstadt                         MVS/SP
DDOHRZ11   Hoch U Dortmund                           IBM VM/SP R3
DHDIHEP5   Hochenergiephysik                         VMS
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DHIURZ1    Hochschule Hildesheim Germany         IBM VM/SP R4
HOFSTRA    Hofstra Univ                          VMS
HUMAIN     Howard Univ Central Comp              MVS
HSETC      HSETC                                 VM/SP HPO
HUJIDS     HUJI Dental School                    DEC MICROVMS
HUMBER     Humber College                        VM/SP
IRMIAS     I Astrofisica Spaziale                VM/SP
IFIIDG     I Document Giurid Firenze             VM/SP
ITOIMGC    I Meteorologia Colonnetti             VM/SP
IRMCRA     I Richerche Aerospaziali              IBM VM/SP
IPVIAN     I.A.N.-CNR, Pava, Italy               VM/SP
IGEICE     I.C.E.-CNR, Genova, Italy             CDC NOS 2 4.2
FRILL52    I.L.L. , Grenoble, France             DEC VMS
FRILL      I.L.L. , Grenoble, France             DEC VMS
FRIMFT11   I.M.F.                                VM/SP
FRURBB51   I.N.S.E.R.M.                          DEC VMS
FROPT11    I.O.T.A                               IBM VM/IS
TRITU      I.T.U                                 VM/SP R3
FRPGM11    I.U.T. Progem                         VM/SP
AWIIAE21   IAEA                                  IBM MVS/XA 2 1.3
IRMIASI    IASI CNR Roma, Italy                  DEC VMS V4 5
ALMCSVM1   IBM Almaden Res Ctr                   VM/SP
ALMCSVM2   IBM Almaden Res Ctr                   VM/SP
ALMCSVM6   IBM Almaden Res Ctr                   VM/SP
ALMCSVS5   IBM Almaden Res Ctr                   VM/SP
ALMVMA     IBM Almaden Res Ctr                   VM/SP
ALMVMB     IBM Almaden Res Ctr                   VM/SP
ALMVMC     IBM Almaden Res Ctr                   VM/SP
ALMVMZ     IBM Almaden Res Ctr                   VM/SP
IBMLABNN   IBM Canada Labs
ISRAEARN   IBM Israel SC - Haifa                 IBM VM/SP R3
DS0LILOG   IBM LILOG Project Stuttgart           IBM VM/SP R3
ZURLVM1    IBM Research Lab Zurich               IBM VM/SP
EMDCCI11   IBM Scientific Center Madrid          IBM VM/SP R4
JPNTSCVM   IBM Tokyo Research                    VM/SP
VNET       IBM VNET Gateway                      VM/SP
YKTVMV     IBM Watson Sci Res Ctr                VM/SP
WATSON     IBM Watson Sci Res Ctr                VM/SP
YKTVMT     IBM Watson Sci Res Ctr                VM/SP
YKTVMH     IBM Watson Sci Res Ctr                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   IBM WZH & ENC Heidelberg              VM/SP
FRIBCP51   IBMC, Strasbourg, France              DEC VMS
DKIBT      IBT                                   IBM VM/IS VER 1 5
SELIUI51   IDA Linkoping, Sweden                 DEC VMS
SELIUIDA   IDA Linkoping, Sweden                 DEC VMS
BBRIBM11   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     Illinois Inst Tech/ACC                VMS
FRINA11    INA-PG                                IBM VM/IS
INDST      Indiana State Univ                    VM/SP
IUBACS     Indiana U Bloomington ACS             VMS
IUP        Indiana U of Penn                     HONEYWELL CP-6 C00
IUBVM      Indiana Univ Bloomington VM           VM/XA SF RELEASE 2
IUCF       Indiana Univ Cyclotron Facil          VMS
IUBUS      Indiana Univ Sch of Business          VM/SP
INSTEPS    Indiana Univ Stwde Teah Elec Prod Sys VM/SP
INDYVAX    Indiana/Purdue U                      VMS
INDYCMS    Indiana/Purdue U                      VM/SP
INDYMED    Indiana/Purdue U                      VM/SP
IUIS       Indiana/Purdue U                      MVS/XA
FRINED51   INED                                  DEC VMS
IRMEMU     INFN - EMU, Roma, Italy               IBM VM/SP R4
IPIVAXIN   INFN - Pisa                           DEC VMS
IPIINFN    INFN Pisa                             IBM VM/SP R4
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IRMLNF     INFN/LNF                               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   INSERM, Villejuif, France              DEC VMS
FRIAP51    Inst d'Astrophysique Paris             VMS
PTIFM      Inst de Fisica e Matematica            DEC VMS
IMISIAM    Inst Fisica Cosmica Milano             VM/SP
IASSNS     Inst for Advan Study                   VMS
IASSUN     Inst for Advan Study                   UNIX BSD
DBNMEB1    Inst fuer Med Statistik / Med EinrichtungeIBM VM/SP R5
AWIIMC11   Inst Med Computwiss Uni Wien           IBM VM/SP HPO R4 2
IRMISS     Instit Superiore di Sanita             VM/SP
EBRIEC01   Institut d'Estudis Catalans            38 CPF
DHDIHEP1   Institut fuer Hochenergiephysi         IBM VM/SP R4
FRILL51    Institut Laue-Langevin                 VMS
FRPSTR01   Institut Pasteur                       AOS/VS
FRINT51    INT                                    VMS
FRCPN11    IN2P3 Ctr de Calcul                    VM/SP
IONAACAD   Iona College Comp Ctr                  VM/SP
IONA       Iona College Music Sys                 VM/SP
ALISUVAX   Iowa S U Ames Lab Dept Energy          VMS
ISUMVS     Iowa State U Comp Ctr                  MVS/SP
ISUCARD    Iowa State U Ctr. Agricul. & Rural Dev VM/SP
ISUEVAX    Iowa State U Eng. VAX Cluster          VMS
ISUVAX     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   IRUCCVAX                               VMS
FRISIO11   ISIO - MIAGE                           VM/IS
IRMISRDS   ISRDS CNR Roma, Italy                  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     Jackson Lab                            UNIX BSD
JMUVAX1    James Madison Univ VAX1                VMS
JPNJAERI   Japan Atomic Energy Res Inst           VM/SP
JCSVAX1    Jersey City St Co                      VMS
ILJCT      Jerusalem Col Tech                     DEC VMS
JHUNIX     JHU HCF                                UNIX
JHUVM      JHU HCF                                VM/SP
JHUVMS     JHU HCF                                VMS
JHHMVS     JHU HCF                                MVS/XA
JHHVM      JHU Hosp Info Sys Dept                 VM/SP
JHUHYG2    JHU School of Public Health            ULTRIX
JNETDEMO   JNETDEMO, RAI, Netherlands             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      John Von Neumann Ctr                   VMS
JVNCD      John Von Neumann Ctr                   VMS
JVNC       John Von Neumann Ctr                   VMS
JHUHYG     Johns Hopkins U                        VM/SP
JHUP       Johns Hopkins U High En Phys           VMS
JHUIGF     Johns Hopkins Univ - IGF               VMS
APLVM      Johns Hopkins Univ App Phys Lab        VM/SP
JILA       Joint Inst for Lab Astrophysics        VMS
FINJYU     Jyvaskyla Univ , Finland               DEC VMS 4 4
JPNKIT     Kanazawa Inst. of Tech.                VM/SP
KSUVAX1    Kansas St U Comp Sci Dept              UNIX BSD
KSUVM      Kansas State U CC                      VM/SP
HRDKSW5    Kapteijn Sterrenwacht Roden            VMS 4 3
BLEKUL11   Kath U Leuven                          VM/SP R4
BLEKUL60   Kath Univ Leuven                       UNIX
BLEKUL21   Kath. Univ Leuven, Belgium             MVS/XA 2 2.0
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BLEKUL12  Kath. Univ Leuven, Belgium            VM/SP R4
BLEKUL10  Katholieke U Leuven Mech Eng          VM/SP R3 1
HNYKUN55  Katholieke U Nijmegen                 VMS
HEARN     Katholieke U Nijmegen                 VM/SP R5
HNYKUN11  Katholieke U Nijmegen                 VM/SP HPO 4 2
HNYKUN22  Katholieke U Nijmegen                 MVS/SP 1 3 -TSO/E-
HNYKUN51  Katholieke U Nijmegen                 VMS
HNYKUN53  Katholieke U Nijmegen                 VMS 4 1
HTIKUB5   Katholieke Uni Brabant                VMS 4
HNYKUN52  Katholieke Universiteit Nijmegen      VMS
JPNKEIO   Keio Univ                             OS IV/F4 MSP
JPNKEKVX  KEK Network                           VMS
JPNKEKTR  KEK TRISTAN                           OS IV/F4 MSP
KENTASHT  Kent S U Ashtabula                    VMS
KENTELIV  Kent S U East Liverpool               VMS
KENTGEAU  Kent S U Geauga                       VMS
KENTVM    Kent S U Info Services                VM/SP
KENTVMS   Kent S U Info Services                VMS
KENTGOLD  Kent S U Info Services                VMS
KENTSALM  Kent S U Salem                        VMS
KENTSTAR  Kent S U Stark                        VMS
KENTTRUM  Kent S U Trumbull                     VMS
KENTTUSC  Kent S U Tuscarawas Cmpus             VMS
DJUKFA11  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  Kernfysisch Versn Inst                VMS 4 2
DJUKFA54  KFA Juelich - IFF                     VMS
DJUKFA52  KFA Juelich - IPP                     VMS
DKAKFK11  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  KUL CME                               VM/SP R3
JPNKUHEL  Kyoto U HEPL                          OS IV/F4 MSP
JPNKUDPC  Kyoto Univ                            OS IV.F4 MSP
JPNKYOTO  Kyoto Univ Dept Info Sci              VM/SP
JPNKISCT  Kyushu Institute of Tech              VM/HPO
JPNKISCI  Kyushu Institute of Tech - Iizuka     VM/HPO
JPNCCKU   Kyushu Univ                           OSR/F4 MSP
FRSOL11   L.P.S.O., Orsay, France               IBM VM/SP
FRLAAS61  LAAS Toulouse France                  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   LAL, Orsay, France                    DEC VMS 4 5
HWALHW5   Landbouwhogeschool Wageningen         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    MUSIC/SP
LCVAX     Lehman Col Acad Comp Ctr              VMS
DM0LRZ01  Leibniz Rechenzentrum Muenchen        CDC NOS 2 5
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LCLARK     Lewis & Clark College               BERKELEY UNIX 4.3
SELIUC51   LIDAC Linkoping, Sweden             DEC VMS
DHHLILOG   LILOG-R, Uni Hamburg, Germany       IBM VM/SP R4
FRLIM51    LIMSI-CNRS, Orsay, France           DEC VMS
FRLMCP61   LMCP                                SUNOS 3 4
FRFLU51    LMFA                                DEC VMS
LIUVAX     Long Island Univ                    VMS
LAMPF      Los Alamos Nat'l Lab                VMS
LSUENG     Louisiana St U Coll Eng             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     Louisiana State Univ Chem Eng VM    VM/SP
LOYVAX     Loyola College, MD                  VMS
LUCCPUA    Loyola U of Chicago                 MVS/SP
FRLRI61    LRI-Orsay                           SUN OS 3 4
NNOMED     LSU Med Ctr - New Orleans           MVS/XA
NSHMED     LSU Med Ctr - Shreveport            MVS/XA
BDILUC11   LUC, Diepenbeek                     VM/SP
IRMLUISS   LUISS Roma                          IBM VM/SP R3 1
FRLURE51   LURE                                VMS
LBL        Lwrce Berkly Lab Comp Serv          VMS
LEPICS     L3, CERN, Geneva, Switzerland       IBM VM/SP HPO 4 2
FRMNHN11   M.N.H.M                             IBM VM-IS
MACALSTR   Macalester College                  VMS
MCCVM1     Macomb Comm Co                      VM/SP
FARMNTON   Maine - Farmington Comp Ctr         VM/SP
MANVAX     Manhattan Coll                      VMS
MARICOPA   Maricopa Cty Comm Coll Dist         VMS
MARIST     Marist Col                          VM/SP
MARISTC    Marist Col                          MUSIC
MARISTA    Marist Col                          MUSIC
MARISTB    Marist Col                          MUSIC
MARFSHVM   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   Mass Inst of Tech FB Nat'l Magnet Lab  VMS
MITVMA     Mass Inst of Tech Info Sys          VM/SP
MITRLEVM   Mass Inst of Tech Res Lab Elec      VM/SP
MITLNS     Mass Inst of Tech.                  VMS
SLOAN      Mass Inst Tech Sloan Sch of Mgmt    VM/SP
DK0UMI1    Mathem Institut Univ Koein          IBM VM/SP R4
DM0MPI11   Max Planck I Physik Astrophysi      IBM VM/SP R4 1
DGAMPE5D   Max Planck Inst Extraterr Physik    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    McGill U                            MUSIC
MCGILLA    McGill U Comp Centre                MUSIC
MCGILL2    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   McMaster U CIS                      VMS
MCMVM1     McMaster U Inf Proc Svcs            VM
TANDEM     McMaster Univ                       VMS
MCOIARC    Med Col Ohio Img Anal Res Ctr       VMS
MUSC       Med U S Carolina - csx/irm          VMS
MCO        Medical College of Ohio             VM/SP
MEDCOLWI   Medical College of Wisconsin        VMS
MUN        Memorial U. of NF                   VMS
MERIT      Merit Comp Net                      VM/SP
MIAMIU     Miami U Academic Comp Service       VM/SP
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MIAVX2     Miami Univ Hamilton Campus VAX            VMS
MIAVX3     Miami Univ Middletown Campus VAX          VMS
MIAVX1     Miami Univ Oxford Campus VAX              VMS
MSU        Mich State Univ. Computer Lab             VM/SP
MSUEGR     Mich State Univ. Engineering              VMS
MTUVAXC    Michigan Tech Univ Comp Sci Res VAX       UNIX
MTUVAXB    Michigan Tech Univ Computer Sci           UNIX
MTUVAXA    Michigan Tech Univ Ctr for Exper Comp     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 1100            OS1100
MITWCCF    MIT – Whitaker College Health Sci, Tech & VMSt
MITVMC     MIT Admin VM/CMS                          VM/SP/HPO
MITVMD     MIT Admin VM/CMS                          VM/SP
MITBUD     MIT Budget, Actng, & Sponsos Programs     VMS
MITWIBR    MIT Whitehead Instit for Biomed Res       VMS
MITBATES   MIT Wm. Bates Linear Accel Lab            VMS
MTSUNIX1   Montana State Univ                        ULTRIX
TECMTYVM   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 Queretaro        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
DMZMPI5P   MPI Chemie                                VMS
DHHMPI5D   MPI Fuer Meteorologie Hamburg             VMS
DM0MPI12   MPI fuer Physik, Muenchen                 IBM VM/SP R5 0
DM0MPI53   MPI fuer Physik, Muenchen                 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      MSU Physics Dept                          VMS
MSVU       Mt St Vincent U                           VMS
MSRCVAX    Mt. Sinai Sch of Med Res Comp of CUNY     VMS
NCSUNE     N Caro S U Dept of Nucl Eng               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
VPFMVS     NASA Space & Earth Sci CC                 MVS/SP
VPFVM      NASA Space & Earth Sci CC                 VM/SP
AOVAX1     Nat'l A & I Ctr – Arecibo Observ          VMS
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NAS         Nat'l Acad of Sci PC/Netwrk          PC DOS
NASVM       Nat'l Acad of Sci VM/SP              VM/SP
TWNCTUCS    Nat'l Chiao-Tung Univ                VMS
NCARIO      Nat'l Ctr for Atmosph Res            VM/SP HPO
NIEHS       Nat'l Instit of Environ Health Sci   VMS
NIEHSC      Nat'l Instit of Environ Health Sci   VMS
NIEHSD      Nat'l Instit of Environ Health Sci   VMS
NRAO        Nat'l Radio Astronomy Observ.        VMS
TWNCTU01    National Chia-Tung Univ              VMS
NIHCUDEC    National Institutes of Health (DEC-10) TOPS-10
NIHCU       National Institutes of Health (IBM 370)  MVS/XA
NIHCULSU    National Institutes of Health (LSU)  VMS
NIHCUSV1    National Institutes of Health (Server 1) VM/SP
NIHCUTST    National Institutes of Health (Test/Dev) MVS/XA
NIHDCRT     National Institutes of Health DCRT   3PLUS
NIHKLMB     National Institutes of Health, NIDDK/LMB VMS
TSSNRC00    National Res Council                 TSS/370
NRCNET      National Research Council            VAX/VMS
NRCCAD      National Research Council            VAX/VMS
MVSNRC00    National Research Council            MVS/XA
ICNUCEVM    National U Comp Ctr - Pisa           VM/SP
ICNUCEVS    National U Comp Ctr - Pisa           IBM MVS
NUSVM       National Univ of Singapore           VM HPO 4.2
NUSEEV      National Univ of Singapore           VMS
NUSDISCS    National Univ of Singapore           VMS
NUS3090     National Univ of Singapore           VM HPO 4.2
ILNCRD      Natl Cncl Res Dev MSD                DEC VMS
ILNITE      Natl Inst for Test and Eval          DEC VMS
NRCVM01     Natl Res Cncl Canada Comp Ctr        VM/SP
NAVPGS      Naval Postgrad Sch                   VM/SP
GUNBRF      NBRF/ Georgetown Univ Med Ctr        VMS
CMEAMRF     NBS Adv. Mfg. Res Fac.               VMS
NBS         NBS Consolidated Scie Comp Sys       NOS
NBSENH      NBS Ex. Networks Host                VMS
NBSMICF     NBS Mgmt. Info. Comp. Fac.           VM/SP
MSMFVM      NBS Molecular Structure Model Fac    VM
NCSUPHYS    NC State Univ                        VMS
NCSUMAEV    NCSI Mech & Aerospace Eng            VMS
NCSUMAE     NCSU  Mech & Aerospace Eng           VM/SP
NCSUCE      NCSU Civil Eng                       VMS
NCSUVAX     NCSU Computing Center                VMS
NCSUVM      NCSU Computing Center                VM/SP4
NCSUECE     NCSU Elec & Comp Eng                 VMS
NCSUIE      NCSU Industrial Eng                  VMS
NCSUMTE     NCSU Materials Eng                   VMS
NDSUVM1     ND Higher Ed Computer Net            VM/SP
NDSUVAX     ND Higher Ed Computer Net            UNIX
NEVIS       Nevis Lab, Columbia U                VMS
NJECNVM     New Jersey Edu Computer Net          VM/SP
NJECNVS     New Jersey Edu Computer Net          MVS/SP
NJECNVM1    New Jersey Edu Computer Net          VM/SP
NJECNVM2    New Jersey Edu Computer Net          VM/XA
ORION       New Jersey Inst of Tech Conf Ctr     VM/SP
MERCURY     New Jersey Inst of Tech Conf Ctr     VM/SP
NMSUMVS1    New Mexico St U Comp Ctr             MVS/SP
NMSUVM1     New Mexico St U Comp Ctr             VM/SP
NMSU        New Mexico St U Comp Ctr             SUNOS
NYSPI       New York Psych Inst                  VM/SP
NYUACF      New York U Academic Comp             VMS
NYUACF7     New York U Academic Comp             VMS
NYUACF1     New York U Academic Comp             VMS
NYUACF6     New York U Academic Comp             VMS
NYUCIMSA    New York U CIMS                      VM/SP
NYUCCVM     New York U Comp Ctr                  VM/SP
NYUCMCL1    New York U Courant Math & Comp. Lab  VMS
NYUMED      New York U Med Ctr                   VMS
DKNBI51     Niels Bohr Institute, Denmark        DEC VMS 4 6
JPNNIHOC    Nihon U Col of Commerce              VM/SP
UMDNJPW1    NJ Univ Med & Dent                   VSE/SP
UMDNJVM2    NJ Univ of Med & Dent                VM/SP
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NOFDB      NLH-Aas, Norway                          VM/SP R5
NCSUMEAS   North Carolina St U                      VMS
NCSUSTAT   North Carolina St U                      VMS
NCSUCHE    North Carolina St U Chem Engr            VMS
NCSUMATH   North Carolina State U                   VM/SP4
NCSUADM    North Carolina State Univ Admin Comp Ctr MVS/SP
NEMOVM     Northeast Missouri State Univ            VM/SP
NEMOMUS    Northeast Missouri State Univ            VM/SP
NUHUB      Northeastern U Comptng Res Ctr           VMS
NEUVMS     Northeastern U Dept Physics              VMS
NAUVM      Northern Arizona Univ                    VM/SP HPO
NAUVAX     Northern Arizona Univ                    VMS
NUACC      Northwestern Univ Vogelback Comp Ctr     VMS
NUCYB      Northwestern Univ Vogelback Comp Ctr     NOS
NRCBSP     NRC Bilogical Sciences Protein           VAX/VMS
NRCCIT     NRC Cd
NRCHEM     NRC Chemistry Division                   VAX/VMS
NRCDRA     NRC Dominion Astrophysical Obs           VAX/VMS
NRCDAO     NRC Dominion Radio Astro Obs             VAX/VMS
NRCHEP     NRC High Energy Physics                  VAX/VMS
NRCHYD     NRC Hydraulics Lab                       VAX/VMS
NRCIDO     NRC Industry Development Off             VAX/VMS
NRCPHY     NRC Physics Division                     VAX/VMS
NSF        NSF                                      UNIX
CRNLAES    NYSAES                                   PRIMOS
CERAMICS   NYSC of Ceramics at Alfred Univ          VMS
NYBVX1     NYU Graduate Business School             VMS
FROCF51    O.P.G.C, Clermont-Ferrand, FR            DEC VMS
ORNLSTC    Oak Ridge Nat'l Lab                      VMS
CESARVAX   Oak Ridge Natl Lab Ctr Engg Sys Adv Res  VMS
OCC        Oakland Comm Co                          VM
OBERLIN    Oberlin College                          VMS
FRONI51    Observatoire - Nice                      VMS
FROBES51   Observatoire de Besancon, Fran           DEC VMS
FROBOR51   Observatoire de Boreaux                  DEC VMS
FROMRS51   Observatoire de Marseille, Fr            DEC VMS
FRMEU51    Observatoire de Paris, Meudon            VMS
FRNEAB51   OCDE                                     DEC VMS
OCLCRSUN   OCLC                                     UNIX 4.2 BSD
OHSTVMB    Ohio State U CAD/CAM                      VM/SP
OHSTCH     Ohio State U Chem Dept VAX                VMS
OHSTHR     Ohio State U Ctr for Human Resource Res  VMS
OHSTMVSA   Ohio State U IRCC                         MVS/SP
OHSTVMA    Ohio State U IRCC                         VM/SP
OHSTPY     Ohio State U Physics Dept.               VMS
OHSTPHRM   Ohio State Univ Coll of Pharm            VM/SP
OUACCVMB   Ohio Univ Athens                         VM/SP
OUACCVMA   Ohio Univ, Athens                        VM/SP
OWUCOMCN   Ohio Wesleyan Univ                       VMS
JPNONRI    Okazaki Nat'l Res Instit                 VMS
OSUCC      Oklahoma State Univ CC                    MVS/XA
UCCVMS     Oklahoma State Univ CC                    VMS
ODUVM      Old Dominion U                           VM/SP
UTOPVM     OPAL, CERN, Geneva,Switzerland           IBM VM/SP HPO 4 2
HHEOUH51   Open Universiteit Heerlen                VMS 4 4
HHEOUH54   Open Universiteit Heerlen                VMS 4 4
HHEOUH53   Open Universiteit Heerlen                VMS 4 4
HHEOUH52   Open Universiteit Heerlen                VMS 4 4
DBNUOR1    Operations Research Bonn                 IBM VM/SP R4
ORSTATE    Oregon State UCS                         NOS 2.5.1-678
ORSTVM     Oregon State Univ.                       VM
JPNDENTU   Osaka Electro-Comm Univ                  UNIS 4.2 BSD
JPNOIT10   Osaka Inst of Tech                       VM/SP
JPNOSKFM   Osaka U HEPL                             OS IV/F4 MSP
JPNOSAKA   Osaka Univ Ed Ctr                        VM/SP
FINOU      Oulu Univ                                IBM VM/SP HPO R3 4
FINOUC     Oulu University, Finland                 MICROVMS 4 6
FRPQT51    P.Q.T., Toulouse, France                 DEC VMS
PACEVM     Pace Univ Pleasantville-Briarcliff Camp  VM/SP
PLU        Pacific Lutheran Univ                    VMS
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IPDUNIV    Padova U Comp Ctr                          VM/SP RELEASE 5
PANAM2     Pan American Univ                          VMS
PANAM1     Pan American Univ                          VMS
PANAM      Pan American Univ                          VMS
PSUVALM    Penn S U Comp Sci VLSI Dev                 UNIX BSD
PSUARCH    Penn St U Arch Comp Lab                    VMS
PSUACL     Penn St U Arch Computer Lab                VMS
PSU2020    Penn St U Engr Comp Lab                    TOPS-20
PSUECLC    Penn St U Engr Comp Lab                    VMS
PSUECLA    Penn St U Engr Comp Lab                    VMS
PSUECLB    Penn St U Engr Comp Lab                    VMS
PSUHCX     Penn St U Engr Comp Lab                    UNIX
PSUCEMD    Penn St U Engr Comp Lab                    VMS
PSUMEV     Penn St U Mech. Engr.                      VMS
PSUCHEM    Penn State - Chemistry                     VM/SP
PSUARLB    Penn State Applied Res Lab                 VMS
PSUARLC    Penn State Applied Res Lab                 VMS
PSUARLA    Penn State Applied Res Lab                 VMS
PSULEPSI   Penn State Elmnt. Particle Lab             VMS
PSULEPSR   Penn State Elmnt. Particle Lab             VMS
PSULEPSA   Penn State Elmnt. Particle Lab             VMS
PSULEPSH   Penn State Elmnt. Particle Lab             VMS
PSUECL2    Penn State Engin. Computer Lab             VM/SP
PSUVAXG    Penn State U                               UNIX BSD
PSUVAXS    Penn State U                               UNIX BSD
PSUDG1     Penn State U                               AOS/VS
PSUPENA    Penn State U Agric Ext Net                 VMS
PSUPENB    Penn State U Agric Ext Net                 VMS
PSUALT     Penn State U Altoona                       VMS
PSUVMXA    Penn State U CAC                           VM/XA SP1
PSUSUN01   Penn State U CAC                           SUN OS 4.0
PSUED1     Penn State U Coll of Ed                    VMS
PSUCES1    Penn State U Comm. Ed Sys                  VMS
PSUCES3    Penn State U Comm. Ed Sys                  VMS
PSUVM      Penn State U Comp Ctr                      VM/XA
PSUCURT    Penn State U CompSci                       ACIS UNIX 4.3
PSUDEC10   Penn State U Eng Comp Lab                  TOPS-10
PSUNUCE    Penn State U Eng. Dept.                    VM/SP
PSUHMC     Penn State U Hershey Med Ctr. Res. Cmptng  VM/SP
PSUHMED    Penn State U Hershey Med Ctr. Res. Cmptng  VMS
PSUMVS     Penn State University                      MVS/XA
PSUPDP1    Penn State University                      UNIX R6
PSUVALP    Penn SU Comp Sci VLSI Dev                  UNIX BSD
PSUVAX1    Pennsylvania State U                       UNIX BSD
PEPVAX     Pepperdine Univ Acad Comp VAX              ULTRIX
PEPPCDRM   Pepperdine Univ Admin Cmptng IBM MVS       MVS/XA
CPWPSCA    Pgh Supercomputer Ctr                      VMS
CPWPSCB    Pgh Supercomputer Ctr                      VMS
DMRHRZ11   Philipps-Universitaet Marburg              IBM VM/SP R4 0
DHDPHY5    Physikalisches Institut                    VMS
DBNPIB5    Physikalisches Institut der U Bonn         DEC VMS 4 6
ITOPOLI    Politecnico di Torino                      VMS
ITOPOLI3   Politecnico di Torino                      VMS
ITOPOLI4   Politecnico di Torino                      VMS
ITOPOLI1   Politecnico di Torino                      VMS
ITOPOLI2   Politecnico di Torino                      VMS
IMIPOLI    Politecnico Milano                         IBM VM/SP R4 1
POLYTECH   Polytechnic U Comp Ctr                     VM/SP
POLYGRAF   Polytechnic U Comp Ctr                     VM/SP
POMONA     Pomona Col Comp Ctr                        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       Princeton University                       VM/SP
PUFORBES   Princeton University                       VM/SP
PUNFS      Princeton University                       VM/SP
PU1879     Princeton University                       VM/SP
PUMIS      Princeton University                       VM/SP
DHIAVM     PSU Dairy Herd Improv. Assn.               VM/SP
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PSULIAS    PSU Library Info Access Sys              HONEYWELL CP-6
PSUADMIN   PSU Mgmt. Srvs                           MVS/XA
PURCHE     Purdue U Chem Engr Dept                  VM/SP
PURCCVM    Purdue U Comp Ctr                        VM/SP
PURVLSI    Purdue U EE VLSI Lab                     VM/SP
QUCDNEE1   Queen's Electrical Engineering           VMS
QUCDNTRI   Queen's Electrical Engineering           VMS
QUCDNEE    Queen's Electrical Engineering           VMS
QCVAXA     Queens College CUNY                      VMS
QCVAXB     Queens College CUNY                      VMS
QCVAXC     Queens College CUNY                      VMS
QCUNIX     Queens College CUNY                      ULTRIX
QCVAX      Queens College CUNY                      VMS
QUCDNCMC   Queens U Can Microelec Corp              VMS
QUCDNAST   Queens Univ Astronomy                    VMS
QUCIS      Queens University                        UNIX
QUCDN      Queens University                        VM/SP
QUCDNSUR   Queens University Surgery                VMS
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
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
RICE       Rice Univ ICSA                           VM/SP
ITORIPTO   Ricerch e Progetti Torino                VM/SP
BGERUG51   Rijks Univ                               VMS
HLERUL52   Rijksuniver Leiden Gorl Lab              VMS 4 1
RITVM      RITISC                                   VM/SP HPO
RITVAXA    Rochester Inst of Tech                   VMS
RITVAXB    Rochester Inst of Tech                   VMS
RITVAXC    Rochester Inst of Tech                   VMS
RITVAXD    Rochester Inst of Tech                   VMS
RITVAXN    Rochester Inst of Tech                   VMS
RITVAX     Rochester Inst of Tech                   VMS
RITVAXO    Rochester Inst of Tech (NTID)            VMS
RITVAXL    Rochester Inst of Tech.                  VMS
ROCKVAX    Rockefeller University                   UNIX BSD
ROHVM1     Rohm & Haas Co                           VM/HPO
RHIT       Rose-Hulman Inst.                        VMS
RMC        Royal Military College                   CP-6
RPICMPVM   RPI Ctr Mfg Prod                         VM/SP
RPICICGD   RPI Graphics Center                      VM/SP
RPICICGE   RPI Graphics Center                      VM/SP
RPITSMTS   RPI Info Tech Srvs                       MTS/XA DIST 5.1C
RPITSGW    RPI Info Tech Srvs                       UTX
DHVRRZN0   RRZN, Univ Hannover, Germany             CDC NOS
DHVRRZN1   RRZN, Univ Hannover, Germany             IBM VM/SP R4 0
BANRUC01   RUCA, Antwerpen, Belgium                 NOS 2 5
DBORUB01   Ruhr-Univ Bochum                         CDC NOS/VE
NORUNIX    RUNIT                                    ULTRIX 2 0
RUTHEP     Rutgers U High Energy Physics            VMS
DRACO      Rutgers Univ CCIS                        VMS
RUTGERS9   Rutgers Univ CCIS MVS                    MVS/SP
CANCER     Rutgers Univ CCIS VAX                    VMS
ZODIAC     Rutgers Univ CCIS Vax Clust              VMS
RUTVM1     Rutgers Univ CCIS VM1                    VM/SP
BIOVAX     Rutgers Univ Molecular Bio Comp Lab      VMS
DACTH01    RWTH Aachen, Germany                     CDC NOS 2 4
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RYERSON    Ryerson                              VM/SP
DWUUNI21   RZ Uni Wuerzburg, Germany            IBM MVS 3 8
YUBGSS21   RZS SR Srbije, Yugoslavia            IBM MVS/SP 1 3.8
SERVAX     S Reg Data Ctr                       VMS
SER        S Reg Data Ctr Tamiami Campus        OS 1100
SLUVCA     Saint Louis Univ                     VMS
SALK       Salk Instit                          VMS
SHSUTHOR   Sam Houston State Univ               VMS
SHSU       Sam Houston State Univ               VMS
SHSUODIN   Sam Houston State Univ               VMS
SAMFORD    Samford Univ                         VM/SP
SDSC       San Diego Supercomputer Ctr          VMS
SCU        Santa Clara Univ                     VMS
HASARA11   SARA Amsterdam, Netherlands          VM/SP R4
JPNSUT50   Scienc U Tokyo Y J Coll              VM/SP
JPNSUT00   Science U of Tokyo                   VM/SP
JPNSUT40   Science U of Tokyo                   VM/SP
JPNSUT31   Science U of Tokyo Noda              VMS
JPNSUT10   Science U Tokyo - Japan              VM/SP
JPNSUT20   Science U Tokyo - Japan Kagurazaka   VM/SP
JPNSUT30   Science U Tokyo - Japan, Noda        VM/SP
JPNSUT3A   Science U Tokyo - Japan, Noda        MUSIC
JPNSUT01   Science Univ of Tokyo                VM/SP
JPNICEPP   Science Univ of Tokyo ICEPP          VM/SP
BMLSCK11   SCKCEN Mol Belgium                   VM/SP R4
IPISNSVA   Scuola Normale Superiore             DEC VMS 4 3
IPISNSIB   Scuola Normale Superiore             VM/SP
SENECA     Seneca College                       VMS
KRSNUCC1   Seoul Nat'l Univ CC                  VM/HPO
SETONVM    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
IMISIAM2   SIAM IFC, Milano, Italy              IBM VM/SP HPO 4 0
SFU        Simon Fraser U Comp Svcs             MTS
SFUVM      Simon Fraser U Comp Svcs             VM/SP
ITSSISSA   SISSA, Trieste, Italy                UNIX UTX
SKIDMORE   Skidmore College                     VMS
SLACASP    SLAC ASP Experiment                  VMS
SLACVM     SLAC Computer Center                 VM/SP
SLACESA    SLAC End Station A                   VMS
SLACHRS    SLAC High Res Spectrometer           VMS
SLACMAC    SLAC Magnetic Calorimeter            VMS
SLACMKII   SLAC Mark-II Detector                VMS
SLACM2     SLAC Mark-II Detector                VMS
SLACMK3    SLAC Mark-III Detector Exp           VMS
SLACPCR    SLAC PCR                             VMS
SLACSLC    SLAC SLC                             VMS
SLACSLD    SLAC SLD Detector                    VMS
SLACTBF    SLAC TBF                             VMS
SLACTWGM   SLAC TCP/Two-Gamma Experiment        VMS
SLACUCSD   SLAC TCP/2-Gamma Expt (UCSD)         VMS
SLACTPCS   SLAC TPC/Two-Gamma Experiment        VMS
SLACPHYS   SLAC TPC/Two-Gamma Experiment        VMS
SMITH      Smith College                        VMS
SIVM       Smithsonian Instit                   VM/SP
TWNSCU10   Soochow Univ                         VM/SP
SDSUVM     South Dakota State Univ              VM/HPO SP
SEMASSU    Southeastern Mass Univ               VMS
SIUCVMB    Southern Illinois U - Carbondale     VM/SP
SIUEVM     Southern Illinois Univ Edwardsvl     VM/SP
SMUVM1     Southern Methodist U ACC             VM/SP
SMSVMA     Southwest Missouri State Univ        VM/SP
SMSVMB     Southwest Missouri State Univ        VM/SP
SMSVAXA    Southwest Missouri State Univ        VMS
SWTEXAS    Southwest Texas State Univ           VMS
SWTNYSSA   Southwest Texas State Univ           VMS
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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    St. Mary's U                       VMS
STMARYTX   St. Mary's Univ of San Antonio     VMS
SMCVAX     St. Michael's Coll                 VMS
SPCVXA     St. Peter's Co                     VMS
SESTAK     Stacken, KTH Sweden                TOPS-10/7
SSRL750    Stanford Synchrotron Rad Lab       VMS
STANFORD   Stanford University                MVS/XA
SUSOLAR    Stanford University                UNIX
SUWATSON   Stanford University                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     Stevens Inst Tech                  VMS
HASARA5    Stichting Academ Reken Amsterdam   VMS 4
SEQZ11     Stockholm U Comp Ctr               IBM VM/SP R4
SEQZ21     Stockholm U Comp Ctr               IBM MVS/SP 1 3.1
SEQZ51     Stockholm U Comp Ctr               DEC VMS
SESUF51    Stockholm Univ                     DEC VMS
QZCOM      Stockholm Univ CC                  TOPS-10/7
SEQZ01     Stockholm Univ CC                  CDC NOS 2 4.1 LEVEL 642
SEQZ02     Stockholm Univ CC                  CDC NOS 2 4.1 LEVEL 642
QZKOM      Stockholm Univ CC                  TOPS-10/7
DBNISKP5   Strahlen-Kernphysik Uni Bonn       DEC VMS 4 4
SEGATE     SUNET                              UNIX BSD4 3
FRSUN12    SUNIST,                            IBM VM/SP
ALBNY1VX   SUNY Albany CC VAX VMS             VMS
UBVMSC     SUNY Bflo CC                       VMS
UBVMSD     SUNY Bflo CC                       VMS
BINGVAXA   SUNY Binghamton                    VMS
BINGVAXB   SUNY Binghamton                    VMS
BINGVAXC   SUNY Binghamton                    VMS
BINGVMA    SUNY Binghamton                    VM/SP
BINGVMB    SUNY Binghamton                    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   SUNY Coll of Technol at Delhi      MCP
SNYBROBA   SUNY College at Brockport          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   SUNY College at Cobleskill         MCP
SNYCORBA   SUNY College at Cortland           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   SUNY College at Old Westbury       MCP
SNYONEBA   SUNY College at Oneonta            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   SUNY College Farmingdale           MCP
SNYMORBA   SUNY College Morrisville           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    SUNY Stony Brook Biol Sci Comp     VM/SP
SBCCVM     SUNY Stony Brook Comp Ctr          VM/HPO
SBCCMAIL   SUNY Stony Brook Comp Ctr Mail     VMS
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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
ALBNYMVS   SUNYA EETR MVS                       MVS/JES2
ALBNYVM1   SUNYA EETR VM                        VM/HPO
HUTSUR51   SURFnet, Netherlands                 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
SUVM       Syracuse University                  VM/HPO
SUMVS      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                            VMS
TARLETON   Tarleton State Univ - DPC            NOS
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 - Haifa                     MVS/SP
TECHNION   Technion - Haifa                     IBM VM/SP HPO 4 2
TECHSEL    Technion Dept Math - Haifa           UNIX
TECHUNIX   Technion Dept of Math                UNIX BSD 4 3
TECHDPD    Technion, Haifa                      MVS/JES2
HENTHT5    Technische Hogeschool Twente         VMS 4 2
DB0TUI11   Technische U Berlin                  IBM VM/SP
DB0TUM11   Technische U Berlin Maschinen        IBM VM/SP
DB0TUZ01   Technische U Berlin Rechenzentrum    NOS
DB0TUS11   Technische U Berlin Schiffs          IBM VM/SP
ICSATAXA   Tecnopolis CSATA Novus Ortus         IBM MVS/XA
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    Temple U Computer Activity           VMS
TMPLNOS    Temple University Computer Activity  NOS
TNTECH     Tennessee Tech Univ                  VMS
TAMCGF     Texas A&M Engineering Graphics       VMS
TAMCBA     Texas A&M U Acad Comp Ctr            VM/SP
TAMBIGRF   Texas A&M U Biochem                  VMS
TAMCHEM    Texas A&M U Chemistry Dept           VMS
TAMSTAR    Texas A&M U Comp Srvs Ctr            VMS
TAMVENUS   Texas A&M U Comp Srvs Ctr            VMS
TAMUNIX    Texas A&M U Computing SC             UNIX
TAMLSR     Texas A&M U CS/LSR                   VMS
TAMTCSL    Texas A&M U EE-TCSL                  VMS
TAMVXEE    Texas A&M U Electrical Engr          VMS
TAMNIL     Texas A&M U Learning Tech Ctr        VMS
TAMMEACA   Texas A&M U ME/CAD                   VMS
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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     Texas Tech U Acad Comp Srvs          VMS
TTUVM1     Texas Tech U Comp Facil              VM/SP
TTUHSCVM   Texas Tech U Health Sci Ctr          VM/HPO
DTUPEV5A   Th Astrophysik Univ Tuebingen        DEC VMS 4 3
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       Triangle U Comp Ctr                  MVS/SP
TUCCVM     Triangle U Comp Ctr                  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                            VM/SP
DB0TUI62   TU Berlin Informatik SWT             UNIX 4 3 BSD
DBSTU1     TU Braunschweig, RZ, Germany         IBM VM/SP R4 SSI
DBSNRV0    TU Braynscgweug, NRV-Gateway         XOS
DCZTU1     TU Clausthal                         VM/SP
HDETUD53   TU Delft                             VMS 4 5
HDETUD52   TU Delft                             VMS 4 4
HDETUD51   TU Delft                             VMS V4 4
HEITHE5    TU Eindhoven CC, Netherlands         VMS 4 5
HEITUE51   TU Eindhoven CC, Netherlands         VMS 4 5
HEITUE1    TU Eindhoven CC, Netherlands         VM/SP
HEIIPO5    TU Eindhoven IPO, Netherlands        VMS 4 5
DGATUM5P   TU Muenchen Physik                   VMS
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   U Akron                              ULTRIX
UABCMC     U Alabama B'ham - CMC                VMS
UABTUCC    U Alabama Birmingham                 MVS/SP
UABCVSR    U Alabama Birmingham                 VM/IS
UA1VM      U Alabama Comp Ctr                   VM/SP HPO
UALTAMTS   U Alberta Comp Svcs MTS              MTS
UALTAVM    U Alberta Comp Svcs VM               VM/SP
EMDUAM11   U Autonoma Madrid Ctr Calc           VM/SP
EB0UB012   U Barcelona Ctr Calculo              VM/SP
DBNVB12    U Bonn Chemische Inst                IBM VM/SP R3 1
DBNUAMA1   U Bonn Inst Mathematik               IBM VM/SP R4
DBNRHRZ1   U Bonn Reg Hochschul                 IBM VM/SP R5
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DBNRHRZ2  U Bonn Reg Hochschulrechenzent       MVS/SP
UCIPPRO   U CA Irvine, Publ Policy Rsrch       VM/SP
UCSFBCL   U CA San Fran Biochem Lab
UCSFC255  U CA San Fran Clin Lab
UCSFCCB   U CA San Fran Comp Ctr
UCSFCGL   U CA San Fran Comp Grap Lab
UCSFVIVO  U CA San Fran Infect Lab
UCSFMIS   U CA San Fran Med Info Sci
UCSFNMR   U CA San Fran Nuc Mag Reson Lab
UNCAACTC  U Calgary A C.T. Centre              MULTICS
UCDASVM1  U Calgary Dept Admin Servs           VM/SP
UCBEAR    U Calif Berkeley                     UNIX BSD
UCBDOROT  U Calif Berkeley                     UNIX BSD
UCBERNIE  U Calif Berkeley                     UNIX BSD
UCBEROS   U Calif Berkeley                     UNIX BSD
UCBBACH   U Calif Berkeley                     UNIX BSD
UCBAMBER  U Calif Berkeley                     UNIX BSD
UCBARPA   U Calif Berkeley                     UNIX BSD
UCBDEAN   U Calif Berkeley                     UNIX BSD
UCBDEGAS  U Calif Berkeley                     UNIX BSD
UCBBERYL  U Calif Berkeley                     UNIX BSD
UCBBIZET  U Calif Berkeley                     UNIX BSD
UCBBRAHM  U Calif Berkeley                     UNIX BSD
UCBBUDDY  U Calif Berkeley                     UNIX BSD
UCBCAD    U Calif Berkeley                     UNIX BSD
UCBCALDE  U Calif Berkeley                     UNIX BSD
UCBCARTA  U Calif Berkeley                     UNIX BSD
UCBCEVAX  U Calif Berkeley                     UNIX BSD
UCBCORAL  U Calif Berkeley                     UNIX BSD
UCBCMSA   U Calif Berkeley                     VM/SP HPO
UCBCOGSC  U Calif Berkeley                     UNIX BSD
UCBCORY   U Calif Berkeley                     UNIX BSD
UCBDALI   U Calif Berkeley                     UNIX BSD
UCBEAST   U Calif Berkeley                     UNIX BSD
UCBESVAX  U Calif Berkeley                     UNIX BSD
UCBDAVIN  U Calif Berkeley                     UNIX BSD
UCBEULER  U Calif Berkeley                     UNIX BSD
UCBFRANN  U Calif Berkeley                     UNIX BSD
UCBGARNE  U Calif Berkeley                     UNIX BSD
UCBHOLDE  U Calif Berkeley                     UNIX BSD
UCBIC     U Calif Berkeley                     UNIX BSD
UCBICW    U Calif Berkeley                     UNIX BSD
UCBINGRE  U Calif Berkeley                     UNIX BSD
UCBJASON  U Calif Berkeley                     UNIX BSD
UCBJASPE  U Calif Berkeley                     UNIX BSD
UCBJI     U Calif Berkeley                     UNIX BSD
UCBKEPLE  U Calif Berkeley                     UNIX BSD
UCBKIM    U Calif Berkeley                     UNIX BSD
UCBLAPIS  U Calif Berkeley                     UNIX BSD
UCBLILAC  U Calif Berkeley                     UNIX BSD
UCBMATIS  U Calif Berkeley                     UNIX BSD
UCBMAXWE  U Calif Berkeley                     UNIX BSD
UCBMEDEA  U Calif Berkeley                     UNIX BSD
UCBMERLI  U Calif Berkeley                     UNIX BSD
UCBMIRO   U Calif Berkeley                     UNIX BSD
UCBMONET  U Calif Berkeley                     UNIX BSD
UCBNEWTO  U Calif Berkeley                     UNIX BSD
UCBOKEEF  U Calif Berkeley                     UNIX BSD
UCBOZ     U Calif Berkeley                     UNIX BSD
UCBPEARL  U Calif Berkeley                     UNIX BSD
UCBQAL    U Calif Berkeley                     MV 8000 AOS
UCBRENOI  U Calif Berkeley                     UNIX BSD
UCBROSE   U Calif Berkeley                     UNIX BSD
UCBSEYMO  U Calif Berkeley                     UNIX BSD
UCBSHADO  U Calif Berkeley                     UNIX BSD
UCBSIM    U Calif Berkeley                     UNIX BSD
UCBSRC    U Calif Berkeley                     UNIX BSD
UCBSYLVI  U Calif Berkeley                     UNIX BSD
UCBTOPAZ  U Calif Berkeley                     UNIX BSD
UCBTULIP  U Calif Berkeley                     UNIX BSD
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UCBUGS    U Calif Berkeley                        UNIX BSD
UCBUNIXS  U Calif Berkeley                        UNIX BSD
UCBVANGO  U Calif Berkeley                        UNIX BSD
UCBVAX    U Calif Berkeley                        UNIX BSD
UCBVIOLE  U Calif Berkeley                        UNIX BSD
UCBWEYL   U Calif Berkeley                        UNIX BSD
UCBZOOEY  U Calif Berkeley                        UNIX BSD
UCBCED    U Calif Berkeley                        SUN UNIX
UCBSOE    U Calif Berkeley                        SUN UNIX
UCBSSL    U Calif Berkeley                        UNIX
UCBBKYAS  U Calif Berkeley                        VMS
UCBCCHEM  U Calif Berkeley                        ULTRIX
UCBJADE   U Calif Berkeley Campus                 UNIX BSD
UCBJANUS  U Calif Berkeley Campus                 ULTIX
UCIVMSA   U Calif 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   U Calif Los Angeles Acad Comp           MVS/SP
UCLAVMB   U Calif Los Angeles Acad Comp           VM/XA SF
UCLASSCF  U Calif Los Angeles Soc Sci Facil       VM/SP
UCRVMS    U Calif Riverside Acad Comp Ctr         VMS
UCRPHYS   U Calif Riverside Phys Dept             VMS
UCSFCCA   U Calif San Fran Comp Ctr               UNIX BSD
UCSFHC    U Calif San Fran Hosp & Clinics         VM/SP
UCSFVM    U Calif San Francisco                   VM/SP
SBHEP     U Calif Santa Barbara                   VMS
UCSBVM    U Calif Santa Barbara Comp Ctr          VM/SP
UCSBUXA   U Calif Santa Barbara Comp Ctr          BSD UNIX
UCSBUXB   U Calif Santa Barbara Comp Ctr          BSD UNIX
UCSCMVS   U Calif Santa Cruz CATS IBM (MVS)       MVS/XA
UCSCHU    U Calif Santa Cruz H&A                  UNIX BSD
UCSCLICK  U Calif Santa Cruz Lick Obs             UNIX
UCSCA     U Calif Santa Cruz Unix A               UNIX BSD
UCSCC     U Calif Santa Cruz Unix C               UNIX BSD
UCSCD     U Calif Santa Cruz Unix D               UNIX BSD
UCSCE     U Calif Santa Cruz Unix E               UNIX BSD
UCSCF     U Calif Santa Cruz Unix F               UNIX BSD
UCSCG     U Calif Santa Cruz Unix G               UNIX BSD
UCSCH     U Calif Santa Cruz Unix H               UNIX BSD
UCSCI     U Calif Santa Cruz Unix I               UNIX BSD
UCSCJ     U Calif Santa Cruz Unix J               UNIX BSD
UCSCK     U Calif Santa Cruz Unix K               UNIX BSD
UCSCL     U Calif Santa Cruz Unix L               UNIX BSD
UCSCM     U Calif Santa Cruz Unix M               UNIX BSD
UCSCVM    U Calif Santa Cruz VM                   VM/SP
PORTAL    U Calif Santa Cruz VM                   VMS
UCSCO     U Calif Santa Cruz VM                   SUN OS
UCCVMA    U Calif System-wide Admin               VM/HPO
UCICP6    U California Comptng Fac                 CP6
BUCLLN11  U Cath Louvain                          VM/SP HPO R4 2
UCF1VM    U Central Florida                       VM/SP
UCFCS     U Central Florida Comp Sci Dept         UNIX BSD
UCHIMVS1  U Chicago Computation Ctr               MVS/SP
UCHISTEM  U Chicago Crewe Laboratory              VM/SP
UCCCMVS   U Cincinnati                            MVS/SP
UCCCVM1   U Cincinnati                            VM/SP
IRUCCIBM  U College Cork                          VM/SP
IRLEARN   U College Dublin                        VM/HPO RELEASE 4 2
COLORADO  U Colorado Boulder Comp Svcs            VMS
COLOPHYS  U Colorado Boulder Physics              VMS
UCONNMVS  U Connecticut                           MVS
UCONNVM   U Connecticut                           VM/SP HPO
DKUCCC11  U Copenhagen Comp Ctr                   IBM VM/SP R5
BMSUEM11  U de l'Etat Belgium                     VM/SP R5
BLIULG11  U de Liege                              VM/SP HPO R4 2
BLIULG12  U de Liege                              VM/SP R4
BLIULG13  U de Liege Belgium                      VM/SP R5
PTEARN    U de Lisboa                             IBM VM/SP
IPGUNIV   U degli Studi di Perugia                IBM VM/SP R3
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UDCVM      U Dist Columbia Comp Ctr              VM/SP
UDCVAX     U Dist Columbia VAX                   VMS
DDOINF6    U Dortmund CC Dept                    UNIX 4 2 BSD
DERRZE1    U Erlangen                            IBM VM/SP R3
UFGATE     U Florida CIRCA                       VMS
UFPINE     U Florida CIRCA                       VMS
UFENG      U Florida Col Engr                    VM/SP
UFFSC      U Florida Faculty Sup Ctr             VM/SP
CGEUGE52   U Geneva                              DEC VMS
HGRRUG0    U Groningen                           NOS
HGRRUG5    U Groningen                           VMS 4 2
UOGUELPH   U Guelph VM/CMS                       VM/SP
UOGVAX2    U Guelph, CIS                         UNIX BSD
DHVMHH1    U Hannover                            IBM VM/SP R2 01
UHCCUX     U Hawaii Comp Ctr                     ULTRIX
UHPLATO    U Hawaii Comp Ctr                     NOS
UHCCMVS    U Hawaii Comp Ctr, Hon, USA           MVS/SP 1.3.5
UHCCVM     U Hawaii Comp Ctr, Hon, USA           VM/SP/HPO 4.2
UHCCVX     U Hawaii Comp Ctr, Hon, USA           VMS
DHDTRN1    U Heidelberg Immunol Inst             IBM VM/SP HPO R4 2
FINUHCB    U Helsinki Phys Comp                  VMS
UHUPVM1    U Houston Comp Ctr                    VM/SP
UHNIX1     U Houston Comp Ctr                    ATT
UHNIX2     U Houston Comp Ctr                    ATT
UHRCC      U Houston Research Comp Ctr           VMS
UHRCC2     U Houston Research Comp Ctr 2         VMS
IDUI1      U Idaho                               VM/SP
NCSAVMS    U Ill Ntl Crt Sprcomp Appl            VMS
NCSAVMSA   U Ill Ntl Ctr Sprcomp Appl            VMS
NCSAVMSB   U Ill Ntl Ctr Sprcomp Appl            VMS
UIUCNPL    U Ill- Urb-Champ Nuc Phy Lab          VMS
UICVM      U Illinois Chicago                    VM/SP
UICMVS     U Illinois Chicago                    MVS/SP
UICPHY     U Illinois Chicago                    VMS
UICVM2     U Illinois Chicago                    VM/SP
UICVMC     U illinois Chicago AISS/ACC           VM/SP
UICMVSA    U Illinois Chicago AISS/ACC           MVS/XA 2.1.5
UIUCMRL    U Illinois Comp Ctr                   VMS
UIUCHEPA   U Illinois High Energy Physics        VMS
UIUCHEPB   U Illinois High Energy Physics        VMS
UIUCVME    U Illinois Urbana-Cham Comp Svcs      VM/SP
UIAMVS     U Iowa                                MVS/SP
UIAECE     U Iowa                                UNIX BSD
UIAPRB     U Iowa                                PRIMOS
UKANVM     U Kansas Comp Srvs                    VM/SP
UKANMED    U Kansas Med Ctr Dpt Info Sys         VM/SP
DKAKFK51   U Karlsruhe Rechenzentrum             VMS
DKAUNI14   U Karlsruhe Rechenzentrum             IBM VM/SP R4
UKCC       U Kentucky Comp Ctr                   VM/SP
UKCCB      U Kentucky Comp Ctr                   VM/SP
UKCCS      U Kentucky Comp Ctr                   VM/SP HPO
UKWANG     U Kentucky DP Ctr                     WANG VS
UKMA       U Kentucky Math Sci                   UNIX BSD
DKIUNI0    U Kiel                                TOPS-10
LAVALVM2   U Laval                               VM/SP
HLERUL53   U Leiden                              VMS 4 5
HLERUL2    U Leiden                              MVS/SP 1 3
HLERUL5    U Leiden                              VMS 4 1
HLERUL51   U Leiden                              VMS 4 1
HLERUL54   U Leiden Medical Infor                VMS 4 1
HMARL5     U Limburg                             VMS 4
ULKYVM     U Louisville Ctrl Comp                VM/SP
ULKYVX02   U Louisville VAX Cluster              VMS
ULKYVX04   U Louisville VAX Cluster              VMS
ULKYVX05   U Louisville VAX Cluster              VMS
ULKYVX03   U Louisville VAX Cluster              VMS
ULKYVX06   U Louisville VAX Cluster              VMS
ULKYVX07   U Louisville VAX Cluster              VMS
MECAN1     U Maine Computer Appl Network         VMS
MAINE      U Maine Computing Center              VM/SP
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PORTLAND    U Maine Portland Comp Ctr                  VM/SP
UOFMCC      U Manitoba Comp Ctr
UOFMCCX     U Manitoba Comp Ctr                        VM
DMARUM8     U Mannheim                                 SIEMENS BS2000
UMDARS      U Maryland College Pk ARS Lab              VMS
UMDARS1     U Maryland College Pk ARS1 Lab             VMS
UMCINCOM    U Maryland College Pk Comp Sci Ctr         VMS
UMDB        U Maryland College Pk Comp Sci Ctr         VM/SP
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
UMSLVAXA    U Missouri St. Louis Campus                VMS
UMKCVAX3    U Missouri Truman                          VMS
UDEM        U Moncton                                  MPE V
UNCCHEM     U N Carolina ACS                           VMS
UNCVM1      U N Carolina ACS                           VM/SP
UNCVX1      U N Carolina ACS                           VMS
UNCSPHV3    U N Carolina Sch Publ Health               VMS
UNCSPHVX    U N Carolina Sch Publ Health               VMS
UNCSPHV2    U N Carolina Sch Publ Health               VMS
UNLARS      U Nebr-Lincoln Agric Res Srv               VMS
UNLAMC      U Nebr-Lincoln Amer Math Comp.             VMS
UNLASVAX    U Nebr-Lincoln Arts & Sciences             VMS
UNLVAX4     U Nebr-Lincoln CALMIT Lab                  VMS
UNLCDC2     U Nebr-Lincoln Comp Res Ctr                NOS/VE
UNLVAX1     U Nebr-Lincoln Comp Res Ctr                VMS
UNLENVAX    U Nebr-Lincoln Eng. Coll                   VMS
UNLVAX3     U Nebr-Lincoln Eng. Coll                   VMS
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
UNMB        U New Mexico Comp Ctr                      VMS
UNFVM       U North Florida Comp Svcs                  VM/SP
IRISHMVS    U Notre Dame Comp Ctr                      MVS/SP
UNDHEP      U Notre Dame High Ener Phys                VMS
IRISHVM     U Notre Dame PC Lab                        VM/SP
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IRISHVM2   U Notre Dame PC Lab                        VM/SP
IRISHVX2   U Notre Dame Physics Dept                  VMS
NDRADLAB   U Notre Dame Radiation Lab                 VMS
ALASKA     U of Alaska Comp Net                       VMS
BANUIA51   U of Antwerp                               VMS
ARIZVM1    U of Arizona CCIT IBM                      VM
ARIZJVAX   U of Arizona CCIT VAX                      VMS
ARIZRVAX   U of Arizona CCIT VAX                      VMS
UBCMTSA    U of BC Admin System                       MTS
UCSFC450   U of California San Francisco              ULTRIX 32M
UCSFFFFT   U of California San Francisco              ULTRIX
UCSFUSE    U of California San Francisco              UNIX
HGRRUG52   U of Groningen                             VMS 4 2
UKAG       U of KY Agri Data Ctr                      VM/SP
CCOL       U of Ky Community Colleges                 VM/SP
HLERUL56   U of Leiden DIOS                           VMS 4 2
HLERUL55   U of Leiden DIOS                           VMS
UC780      U of Maryland                              VMS
ECSVAX     U of NC Gen'l Admin Cent Office - Educat.  UNIX BSDrvs
OREGON1    U of O CC                                  VM/SP
UOTELG01   U of Ottawa Elec Eng                       VMS
UTORDAIS   U of T DAIS                                VMS
UTKVX2     U of Tennessee                             VMS
UTKVX3     U of Tennessee Computing Center            VMS
WATLAGER   U of Waterloo, EERC                        VMS
WISCAGE    U of Wis, Inst on Aging                    VMS
DOLUNI1    U Oldenburg                                IBM VM/SP R4
DOSUNI     U Osnabrueck                               CGK BS 3
UOTTAWA    U Ottawa Computer Ctr                      VM/HPO
UOTCSI1    U Ottawa Computer Sci Dept                 UNIX
UOTCSI2    U Ottawa Computer Sci Dept                 UNIX
UOTADM01   U Ottawa Faculty of Admin                  VMS
IPACUC     U Palermo                                  VM/SP
PENNDRLN   U Penn DRL Comp Facil                      VM/SP
PENNDRLS   U Penn DRL Comp Facil                      VM/SP HPO
PENNLRSM   U Penn Matter Lab                          VMS
PENNHEP1   U Penn Physics                             VMS
PITTVMS    U Pittsburgh Comp Info Sys                 VMS
PITTUNIX   U Pittsburgh Comp Info Sys                 ULTRIX
EMDUPM11   U Poli Madrid Ctr Calc                     IBM VM/SP R4
UPEI       U Prince Edward Island                     VMS
UQAM       U Quebec Montreal                          VM/SP
UREGINA1   U Regina                                   VM/SP
UREGINAV   U Regina                                   VMS 4 5
UREGINA2   U Regina Dept Comp Services                UNIX BSD
UORCHEM    U Rochester Chemistry VAX                  VMS
UORVM      U Rochester Comp Ctr                       VM/SP
UORDB2     U Rochester Comp Ctr                       VMS
UORHBV     U Rochester Comp Ctr                       VMS
UORJVN     U Rochester Comp Ctr                       VMS
UORKV      U Rochester Comp Ctr                       VMS
UORKV2     U Rochester Comp Ctr                       VMS
UORMVS     U Rochester Comp Ctr                       MVS/SP
UORUNIX    U Rochester Comp Ctr                       UNIX BSD
UORDBV     U Rochester Computing Ctr                  VMS
UORGSM     U Rochester Grad Sch Mngmnt                VM/SP
UORHEP     U Rochester High Energy Physics            VMS
UOROPT     U Rochester Institue of Optics             VMS
SASK       U Saskatchewan                             DEC VMS 4 7
BAGAMCOK   U South Carolina Bus College               VM/SP
UNIVSCVM   U South Carolina Comp Svcs                 VM/SP
KYLARA     U Southern Calif                           VMS
MIRRIM     U Southern Calif                           VMS
ZAPHOD     U Southern Calif                           VMS
GEO        U Southern Calif                           VMS
BMSR       U Southern Calif Biomed Simul Res          VMS
RAMOTH     U Southern Calif Chemistry Dept            VMS
JAXOM      U Southern Calif Eng Dept                  VMS
MOUSE      U Southern Calif Eng Dept                  VMS
PERN       U Southern Calif Engineering Sch           VMS
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SC         U Southern Calif Engineering Sch        VMS
USCVM      U Southern California                   VM/HPO
USMVAX     U Southern Maine Portland Comp Ctr      UNIX
DS0RUS1I   U Stuttgart                             IBM VM/SP R2 1
DS0RUS1P   U Stuttgart                             IBM VM/SP R2 1
DS0IKE51   U Stuttgart Inst Kernenergetik          VMS
DS0MPA51   U Stuttgart Materialpruef               DEC VMS 4 7
DS0RUS51   U Stuttgart Rechenzentrum               VMS
DS0RUS0    U Stuttgart, Germany                    NOS
UTCVM      U Tenn at Chatta Ctr of Excel           VM/SP
UTCMUSIC   U Tenn at Chatta MUSIC Sys              MUSIC/SP
UTKVX1     U Tennessee                             VMS
UTKSM1     U Tennessee                             VMS
UTADNX     U Texas Austin Comp Ctr                 VMS
UTA3081    U Texas Austin Comp Ctr                 VM/SP
UTA4341    U Texas Austin Comp Ctr                 VM/SP
UTGATE     U Texas Austin Comp Ctr                 VMS
UTNET      U Texas Austin Comp Ctr                 VMS
UTAIVC     U Texas Austin Comp Ctr                 VMS
UTAIV1     U Texas Austin Comp Ctr                 VMS
UTAIV2     U Texas Austin Comp Ctr                 VMS
UTAIV3     U Texas Austin Comp Ctr                 VMS
UTAIV4     U Texas Austin Comp Ctr                 VMS
UTADP      U Texas Austin Data Proc. Sys           MVS/XA
UTAPHY     U Texas Austin Physics Dept             VMS
UTDALVM1   U Texas Dallas Acad Comp Ctr            VM/SP
UTEPA      U Texas El Paso CC                      VM/SP
UTEP       U Texas El Paso Comp Ctr                VM/SP
UTSA4381   U Texas San Antonio                     OS/VS1
UTSAVM1    U Texas San Antonio Comp Res            VM/SP
UOFT01     U Toledo                                VM/SP
UOFT02     U Toledo                                VMS
NORUNIT    U Trondheim                             IBM VM/SP R4
DTUZDV2    U Tubingen ZDV BASF                     MVS/SP
DTUZDV1    U Tubingen Zent Datenverar              IBM VM/SP R3
UTHSCSA    U TX Hlth Sci Ctr Comp Resrcs           VMS
SEUMDC01   U UME$                                  CDC NOS 2 3
HUTRUU0    U Utrecht                               AOS/VE
HUTRUU51   U Utrecht Neth                          VMS 4 6
UVUNIX     U Victoria UNIX
UVPHYS     U Victoria VAX
UVVM       U Victoria VM                           VM/SP
VIRGINIA   U Virginia Acad Computing               NOS
UWACDC     U Washington Acad Comp Ctr              NOS
UWAV1      U Washington Acad Comp Ctr VAX1         VMS
UWAV2      U Washington Acad Comp Ctr VAX2         VMS
UWAV3      U Washington Acad Comp Ctr VAX3         VMS
UWAV4      U Washington Acad Comp Ctr VAX4         VMS
MAX        U Washington Acad Comp Srvs             VMS
UWAVM      U Washington Academic Comp Ctr          VM/SP
UWAIS1     U Washington Admin Data Proc            VM/SP HPO
UWAMVS1    U Washington Admin Data Proc            MVS/SP
UWACHEM    U Washington Chemistry VAX              VMS
UWASH      U Washington Cmptng. & Commun           VM/SP
SAAM       U Washington Ctr for Bioeng.            VMS
CPAC       U Washington Ctr for Process Analy Chem VMS
UWAEE      U Washington Electrical Engr            VM/SP
UWAENG     U Washington Electrical Engr            VM/SP
UWALOCKE   U Washington Locke Comp Ctr             VMS
UWAPHAST   U Washington Physics VAX                VMS
WATACS     U Waterloo Adv Control Sys              VM/SP
WATACO     U Waterloo Arts Comp Off                VMS
WATDCS     U Waterloo Comp Svcs                    VM/SP
WATCSG     U Waterloo Comp Sys Grp                 VM/SP
WATDCSU    U Waterloo Dept Comp Svcs               UNIX BSD
WATMTA     U Waterloo Dept Comp Svcs               VMS
WATSCI     U Waterloo Facil Science                VMS
WATMAD     U Waterloo Mapping Analysis & Design    VMS
WATER      U Waterloo Math/ICR                     UNIX
WATMNET    U Waterloo MICRONET                     VM/SP
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UWF         U West Fla Comp Ctr                VM/SP
UWOCC1      U Western Ontario                  VM/SP
WINDSOR1    U Windsor                          VM/SP
WISCPSLB    U Wisconsin Dept Physics           VMS
WISCMAC1    U Wisconsin Madison Comp Ctr       VMS
WISCPSLA    U Wisconsin Phys Sci Lab           VMS
WISCPSLC    U Wisconsin Physical Sci Lab       VMS
DW0URZ0     U Wuppertal HRZ                    CDC NOS 2 3
WYOCDC1     U Wyoming                          NOS
UWYO        U Wyoming                          VMS
DHBRRZ41    U. Bremen                          SIEMENS BS3000 MSP 20
FRUTC51     U.T.C. Compiegne, France           DEC VMS
DHDUB1      UB Heidelberg, Germany             IBM VM/SP R4
UCLASAUP    UCLA – Arch and Urban Plng         VM/SP
UCLACH      UCLA Chem Dept.                    VMS
UCLAUE      UCLA Crystallog. Res.              VMS
UCLASTRO    UCLA Department of Astronomy       VMS
UCLAPH      UCLA Dept. of Physics              VMS
UCLAHEP     UCLA High Energy Physics           VMS
UCLAIEPI    UCLA IE Physics                    VMS
UCLASP      UCLA Space & Plasma Physics        VMS
UCLASS      UCLA Space Science                 VMS
SBITP       UCSB Inst Theor Physics            VMS
UCSFCOPE    UCSF Clinic for Lab Medicine       ULTRIX
BANUFS11    UFSIA, Antwerpen, Belgium          VM/SP
BANUIA52    UIA Antwerpen                      VMS 4 5
UIUCVMC     UIUC – ENGR                        VM/SP
UIUCVMD     UIUC _ CSO                         VM/SP
BBRBFU01    ULB/VUB                            NOS
BLIULG14    ULG, Liege, Belgium                VM/SP R5
BLIULG15    ULG, Liege, Belgium                VM/SP R5
SEUMDC51    UMDAC Umea, Sweden                 DEC VMS
GRATHUN1    UNATH, ATHENS, GREECE              NOS 2 5.2 (678/670)
UNC         UNC Comp Ctr                       MVS/SP
UNCCVM      UNCC Compt. Srvs. VM               VM/SP
GRCRUN11    UNCR Heraklion, Crete, Greece      VM/SP
GRCRVAX1    UNCR, Heraklion, Crete, Greece     VMS 4 3
FRUNES21    UNESCO                             MVS/SP
DBTHRZ5     Uni Bayreuth RZ, Germany           DEC VMS 4 6
DERDBS5     Uni Erlangen                       VMS
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    Uni Karlsruhe                      VMS
DKAUNI0P    Uni Karlsruhe (IPF), Germany       PRIMOS REV. 20.0.4
DKAUNI0I    Uni Karlsruhe (IRA), Germany       UNIX 4 3 BSD
DKAUNI12    Uni Karlsruhe, Telematik           IBM VM/SP R3
DMZUK1      Uni Klinik Mainz, Germany          IBM VM/SP R5 0
DK0RRZK1    Uni Koeln, Germany                 IBM VM/SP R4
DKNKURZ1    Uni Konstanz, Germany              IBM VM/SP R5
HLERUL57    Uni Leiden                         VMS 4 5
HLERUL58    Uni Leiden, Netherlands            VMS 4 5
HLERUL5I    Uni Leiden, Netherlands            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    Uni Rotterdam, Netherlands         VMS 4
CSGHSG52    Uni St Gallen, Switzerland         DEC VMS
CSGHSG53    Uni St Gallen, Switzerland         DEC VMS
DS0IND5     Uni Stuttgart, Germany             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
DS0MSV1     Uni Stuttgart, Germany             IBM VM/SP R4
DS0SYN51    Uni Stuttgart, Germany             DEC VMS 4 6
DS0IFU56    Uni Stuttgart, Germany             DEC VMS 4 6
DS0IFF5     Uni Stuttgart, Germany             DEC VMS 4 2
DTUMED1     Uni Tuebingen, Med. Rechenzent     IBM VM/SP
HENTHT51    Uni Twente                         VMS 4
HUTRUU52    Uni Utrecht, Netherlands           VMS 4 6
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HUTRUU53   Uni Utrecht, Netherlands                 VMS 4 4
CNEDCU51   Uni. Neuchatel, Switzerland              DEC VMS
DKARH01    UNI-C, Aarhus, Denmark (CDC)             CDC NOS 2 4.1-630/628
DKARH02    UNI-C, Aarhus, Denmark (VAX)             DEC VMS 4 4
DANPOST    UNI-C, Aarhus, Denmark (VAX)             ULTRIX
DKEARN     UNI-C, Lyngby, Denmark (IBM)             IBM VM/SP HPO R4 2
NEUVM1     UNI-C, Lyngby, Denmark (IBM)             IBM VM/SP HPO R4 2
DKUNIL51   UNI-C, Lyngby, Denmark (VAX)             DEC VMS 4 5
NEUMVS1    UNI-C, Lyngby,Denmark (AMDAHL)           IBM MVS/XA
USUHS      Uniformed Svrs Univ of Health Sci        VMS
UNION      Union College                            VNS
DBNINF5    Univ Bonn Informatik                     VMS
UCLARUAC   Univ Calif Los Angeles UCLA/OAC          VMS
UCCVMB     Univ Calif System-wide Admin             VM/HPO
UCLAAIS    Univ California LA AIS                    MVS/XA
EMDUCM11   Univ Complutense de Madrid               VM/SP
UCHCECVM   Univ de Chile CEC                        VM/SP
UCHDCI01   Univ de Chile DESECI                     VM/SP
CFRUNI51   Univ de Fribourg                         DEC VMS 4 4
USACHVM1   Univ de Santiago de Chile                VM/SP
UTALCAVX   Univ de Talca                            VMS
DD0RUD81   Univ Duesseldorf                         SIEMENS BS2000 V8 0
UGAIBM1    Univ Georgia                             MVS/JES3
UGA205     Univ Georgia                             VSOS
LAVALVX1   Univ Laval                               VMS
LAVALMU1   Univ Laval Music Sys                     MUSIC/SP
DMZRZU71   Univ Mainz                               BULL MULTICS MR 11R
DMSWWU1C   Univ Muenster, Germany                   IBM VM/SP HPO R5 0
UNAMVM1    Univ Nat'l Auto De Mexico                VM
UNBSJ      Univ New Brunswick St. John              PRIMOS
NUNO       Univ New Orleans Admin DP                MVS
UNO        Univ New Orleans CRC                     VMS
ARIZMIS    Univ of Arizona - MIS Dept               VMS
SOVSET     Univ of Arizona - Soviet Studies         VMS
ARIZEVAX   Univ of Arizona College of Eng. EVAX2    VMS
UALR       Univ of Arkansas Little Rock             VMS
UAFSYSA    Univ of Arkansas Main Camp               VM/SP
UAFSYSB    Univ of Arkansas Main Camp               VM/SP HPO
UAFMUSA    Univ of Arkansas Main Camp               MUSIC/SP
UAMS       Univ of Arkansas Med Sci                 VMS
UBCMTSG    Univ of BC General Sys                   MTS
UBCMTSL    Univ of BC Library System                MTS
NOBERGEN   Univ of Bergen, Norway                   IBM VM/SP R5
UNCAEDU    Univ of Calgary                          VMS
UCSCZ      Univ of California CC Series Z            VMS
UCSCCRLP   Univ of California Comp Res Lab Pger      UNIX
UCSCCRLV   Univ of California Comp Res Lab Vger      UNIX
UCSCCRLI   Univ of California Comp Res Lab VM        VM/SP
UCSCCRLJ   Univ of California Comp Res Lab, Jup      UNIX
UCSCCRLS   Univ of California Comp. Res Lab Saturn   UNIX
UCSCLOA    Univ of California Lick Observ            UNIX
UCSCERIS   Univ of California Physics Bd             UNIX 4.2
UCSD       Univ of California San Diego Acad Gatwy SuSUN UNIX
UCSDMVSA   Univ of California San Diego AdCom Op     MVS/XA
UCDAVIS    Univ of California, Davis                 UNIX
UCDHEP     Univ of California, Davis                 VMS
UCHASTRO   Univ of Chicago - Astron/Astrophy        UNIX
COLOLASP   Univ of Colorad / LASP                   VMS
COLOSPGS   Univ of Colorado - Colorado Springs CS   VMS
FARRAND    Univ of Colorado Boulder - Farrand Hall  VMS
CUDENVER   Univ of Colorado Denver                  VMS
UCOLMCC    Univ of Colorado Health Sci Ctr          VMS
DAYTON     Univ of Dayton                           VMS
DUCAIR     Univ of Denver Comptng & Info Res        VMS
IFASGNV    Univ of Florida                          VMS
CGEUGE53   Univ of Geneva                           DEC VMS
CGEUGE11   Univ of Geneva                           IBM VM/SP
CGEUGE54   Univ of Geneva                           DEC VMS
UGACDC1    Univ of Georgia                          NOS
UGA        Univ of Georgia                          VM/SP
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UGABUS     Univ of Georgia                          VM/SP
UGAMUSIC   Univ of Georgia                          MUSIC/SP
UGAXA      Univ of Georgia                          VM/XA/SF
CCQC       Univ of Georgia                          VM/SP
SREL       Univ of Georgia                          VMS
TIFTON     Univ of Georgia Coastal Plains Exp Sta   VM/SP
GRIFFIN    Univ of Georgia Experiment Station       VM/SP
HARTFORD   Univ of Hartford                         VMS
UHHEPG     Univ of Hawaii High Enrgy Phys Grp       VMS
FINUHB     Univ of Helsinki                         VMS
ISEARN     Univ of Iceland                          VM/SP
IDCSVAX    Univ of Idaho                            VMS
UIUCSCS    Univ of Illinois Chemistry               VMS
UICBAL     Univ of Illinois Chicago Biomolec Analy LaVMS
UKANVAX    Univ of Kansas VAX Sys                   VMS
UKPR       Univ of Kentucky Prim                    PRIMOS
FINKUO     Univ of Kuopio                           VMS
CLSUNI51   Univ of Lausanne                         DEC VMS
UMBSKY     Univ of Mass at Boston                   VMS
UMBMAP     Univ of Mass at Boston                   VMS
UMAECS     Univ of Mass, Eng. Comp Svrs             VMS
UMBC2      Univ of MD, Baltimore Co                 VMS
UMNACVX    Univ of Minnesota Acad Comptng           VMS
UMNACBR    Univ of Minnesota Acad Comptng           VMS
UMNACCA    Univ of Minnesota Acad Comptng           NOS
UMNACUX    Univ of Minnesota Acad Comptng           UMAX 4.2
UMNADMIN   Univ of Minnesota Admin Info Svcs        MVS
UMNDUL     Univ of Minnesota Duluth                 VMS
UMNHCS     Univ of Minnesota Health Comp Sci        VMS
UMNHSNOS   Univ of Minnesota Health Sci Cmptng Srvs NOS
UMNHSNVE   Univ of Minnesota Health Sci Cmptng Srvs NOS
UMNMOR     Univ of Minnesota Morris                 VMS
SIMVAX     Univ of Minnesota Sim Resource           VMS
UMNSOM     Univ of Minnesota, Sch of Mgmt           VM/SP
UMSVM      Univ of Mississippi                      VM/SP
UMSMVS     Univ of Mississippi                      MVS/SP
UMSNOS     Univ of Mississippi                      NOS
UMSVSOS    Univ of Mississippi                      VSOS
UMSPHY     Univ of Mississippi                      VMS
UNMCVM     Univ of Nebraska Med Ctr                 VM/HPO
UNOMA1     Univ of Nebraska Omaha CC                VMS
UNOMA2     Univ of Nebraska Omaha CC                VMS
UNEV       Univ of Nevada Sys CC                    NOS
UNB        Univ of New Brunswick                    MVS/XA
UNHH       Univ of New Hampshire                    VMS
UNCVAX1    Univ of North Carolina CH                VMS
UNCG       Univ of North Carolina Greensboro Acad CC VMS
UNTVM1     Univ of North Texas Comp Ctr             VM/SP
UNTMUSIC   Univ of North Texas MUSIC
NTSUVAXA   Univ of North Texas VAX A                VMS
NTSUVAXB   Univ of North Texas VAX B                VMS
UOKMVSA    Univ of Oklahoma Norman                  MVS/XA-JES2
UOREGON    Univ of Oregon Dept. Comp. & Info Scie,  UNIX BSD
UONEURO    Univ of Oregon Inst. of Neurosci VAX     VMS
UOXRAY     Univ of Oregon Molecular Bio VAX         VMS
OREGON     Univ of Oregon VAX 8800                  VMS
UOTADM02   Univ of Ottawa
UPRENET    Univ of Puerto Rico Ed Net               VMS
URVAX      Univ of Richmond                         VMS
UORNSRL    Univ of Rochester                        VMS
SCRANTON   Univ of Scranton Comp Ctr                VMS
SCRVMSYS   Univ of Scranton Comp Ctr                VM/SP
UDESVM     Univ of Sherbrooke                       VM/SP 4
UDESMA     Univ of Sherbrooke
UDESMB     Univ of Sherbrooke
USOUTHAL   Univ of South Alabama                    VM/SP
USMCP6     Univ of Southern Miss                    CP6
UTCHP1     Univ of Tennessee - Chatta.              MPE V/E
UTKVX4     Univ of Tennessee Comp Ctr VAX4          VMS
UTKCS1     Univ of Tennessee Computer Sci Dept      VMS
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UTMEM1     Univ of Tennessee, Memphis              VMS
UTMEM2     Univ of Tennessee, Memphis              VMS
UTMEM3     Univ of Tennessee, Memphis              VMS
UTARLVM1   Univ of Texas – Arlington VM            VM/SP
UTARLACS   Univ of Texas Arlington                 MVS/SP
UTARLADM   Univ of Texas Arlington                 MVS/SP
UTARLG     Univ of Texas Arlington                 VMS
UTMBEACH   Univ of Texas Med Branch at Galveston   VMS
UTSW       Univ of Texas Southwestern Med Ctr Dallas VMS
UTHVM1     Univ of Texas Sys Cancer Ctr            VM/SP
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 VMS
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 VMS
UTMGAL     Univ of Texas Sys Off of Telecom. Srvcs VMS
UTPB       Univ of Texas Sys Off of Telecom. Srvcs VMS
UTSA       Univ of Texas Sys Off of Telecom. Srvcs VMS
UTSYS      Univ of Texas Sys Off of Telecom. Srvcs VMS
UTTYL      Univ of Texas Sys Off of Telecom. Srvcs VMS
UTSPH      Univ of Texas Sys Off of Telecom. Srvcs VMS
UTCCSP     Univ of Texas Sys Off of Telecom. Srvcs VMS
UTMSI      Univ of Texas Sys Off of Telecom. Srvcs 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
JPNUTKOM   Univ of Tokyo Coll of Arts & Sci        VM/SP
JPNISSP    Univ of Tokyo/Inst for Solid St Phy     OS IV/F4 MSP
UTORCSRI   Univ of Toronto
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                UNIX
UTOROCI    Univ of Toronto OCI                     VMS
UTORPHYS   Univ of Toronto Physics                 VMS
JPNTSUKU   Univ of Tsukuba – SIPC                  DYNIX
TULSA      Univ of Tulsa                           CP-6 C01
UTAHCCA    Univ of Utah CC                         VMS
UTAHBUS    Univ of Utah College of Bus CC          VM
UTAHLIB    Univ of Utah Marriott Lib               VM/SP
UTAHMED    Univ of Utah Med Sch Scie CC            VMS
UVMVM      Univ of Vermont                         VM/SP
UVMADMIN   Univ of Vermont                         VM/SP
UVMVAX     Univ of Vermont                         VMS
UWAJANUS   Univ of Washington Astro. HST Project   VMS
UWAGEM     Univ of Washington Gemini Comptng Faclty VM/SP
UWAMATSC   Univ of Washington Materials Sci Comp   VM/SP
UWAPA2     Univ of Washington Physics Theory Grp   VMS
UWOVAX     Univ of Western Ontario                 VMS
WINDSOR2   Univ of Windsor                         VMS
UWPG02     Univ of Winnipeg                        DEC VMS 5 0
WISCCDE    Univ of Wis., Cntr. Demog.              VMS
WISCPHEN   Univ of Wisc Pheno Inst                 MICROVMS
WISCGPS    Univ of Wisc, Geog/PoliSci Depts        VMS
UWLAX      Univ of Wisconsin – La Crosse           VMS
UWMCSD4    Univ of Wisconsin – Milwaukee           UNIX
UWSTOUT    Univ of Wisconsin – Stout               VMS
UWEC       Univ of Wisconsin Eau Claire            CP-6 COO
WISCSOC    Univ of Wisconsin Madison Socio Dept    VMS
OSHKOSHW   Univ of Wisconsin Oshkosh               VMS
WISCMAC3   Univ of Wisconsin, MACC                 VMS
HROEUR0M   Univ Rotterdam                          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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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  Universidad Autonoma Madrid        VAX-VMS 4 7
EB0UB011  Universidad Barcelona – Spain      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  Universita Genova                  VM/SP
IMEUNIV   Universita Messina                 IBM VM/SP R3 1
ICSUNIV   Universita' della Calabria         VM/SP
IBGUNIV   Universita' di Bergamo Italy       IBM VM/SP R4
IPRUNIV   Universita' di Parma, Italy        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  Universitaet Bielefeld HRZ         VM/SP
DHBRRZ45  Universitaet Bremen                SIEMENS BS3000 MSP 20
DDOHRZ21  Universitaet Dortmund              IBM MVS/SP 1 3.3
DERRZE0   Universitaet Erlangen              CDC NOS 2
DE0HRZ1A  Universitaet Essen                 IBM VM/SP R4
DGIHRZ01  Universitaet Giessen               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
DE0WTZ1A  Universitaetsklinikum Essen        IBM VM/SP R3
CFRUNI52  Universite de Fribourg, Switz      DEC VMS 4 6
CFRUNI53  Universite de Fribourg, Switz      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  University de Geneve               DEC VMS
UNCA205   University of Calgary Cyber        VSOS
UDACSVM   University of Delaware             VM/SP
UDPLATO   University of Delaware Off of Instruct. TeNOS
USCN      University of Georgia              NOS
UHVAX1    University of Houston              VMS
UHVAX8    University of Houston              VMS
ELROY     University of Houston              VMS
UHOU      University of Houston              VMS
UHCL2     University of Houston/CL           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   University of Toronto
UTOROISE  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  US Geological Survey ISD VAX       VMS
GROGHE    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
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UWARITA    UW San Diego RUAC                          VMS
VALPO      Valparaiso Univ                            AOS
VUENGVAX   Vanderbilt U Engineering Sch               VMS
VUCTRVAX   Vanderbilt Univ CC                         VMS
VUCTRVX1   Vanderbilt Univ CC                         VMS
VUCTRVX2   Vanderbilt Univ CC                         VMS
VUHHCL01   Vanderbilt Univ HHCL                       VMS
VULIBS     Vanderbilt Univ Library                    IBM/DOS
VUHEP      Vanderbilt Univ Physics                    VMS
VANDVM1    Vanderbilt Univ. A&S                       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     Virginia Common U Comp Ctr                 MVS/SP
VCUVM1     Virginia Common U IBM C.C                  VM/SP
VCUJADE    Virginia Commonwealth Univ                 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     Virginia Tech (VPI)                        VMS
VTVM1      Virginia Tech (VPI)                        VM/SP
VTVM2      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    Volcani Institute                          DEC VMS 4 5
FINVTT     VTT, Finland                               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     Washington Univ                            MUSIC/SP
WUGREEN    Washington Univ                            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   Weizmann Inst Comp Ctr                     IBM VM/SP HPO R4 2
WISVMS     Weizmann Inst Dept of Chem                 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      West Virginia Network                      VM/SP
WVNSVC     West Virginia Network                      VMS
WVNVMS     West Virginia Network                      VMS
WVNET      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
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TWSUVM      Wichita State Univ CC                 VM/SP
WLUCP6      Wilfred Laurier Univ                  CP-6
WILLIAMA    Williams College CC                   VMS
WILLIAMB    Williams College CC Admin VAX Sys     VMS
WILLIAMS    Williams College Comp Ctr             VMS
DGOWISO1    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    WU-Wien                               IBM VM/SP HPO R4 2
WVNBSC      WVNET - Bluefield St Col              VMS
WVNCC       WVNET - Concord Col                   VMS
WVNFSC      WVNET - Fairmont St Col               VMS
WVNGSC      WVNET - Glenville St Col              VMS
WVNNCC      WVNET - Northern Comm. Col            VMS
WVNPCC      WVNET - Parkersburg Comm. Col         VMS
WVNPSC      WVNET - Potomac State Col             VMS
WVNSC       WVNET - Shepherd Col                  VMS
WVNSCC      WVNET - Southern Comm Col             VMS
WVNWLSC     WVNET - West Liberty St. Col          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
YALEZEUS    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 10/05/88
                     TOTAL NODES = 3


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

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                  -=+^ Phrack World News ^+=-

                        Issue Five/Part 5

                       Compiled and Written By

                        Knight Lightning

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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

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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
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Quick Notes

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

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

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

A member of the Underworld Elite, run by Night Stalker, got busted for calling
the White House and making a bomb threat. The Secret Service came to his house
and they knew he used illegal extenders to make the calls. This user decided
to give them the number and his passwords to the Underworld Elite. He was
deleted.   Info by Night Stalker, 5/11/86...The Underworld (216)356-9464

Telenet Bob was busted. The full story appeared in the April issue of 2600
Magazine. Nineteen year old from New Jersey. Name Robert Davenport. $500
fine, $890 restitution to AT&T.   Info by Sally Ride:::Space Cadet
----
Bad Boy In Black has given up BBSing and Phreaking (for the most part) so you
probably won't be hearing from him again. He claims he has gotten bored of
BBSing and have had little time since the summer is rolling around. Therefore,
he decided to give it up all together.   Info by [bad boy in black] 5/11/86

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

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

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

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

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

The Arabian Knight was busted for conferencing.

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

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

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Phrack Pro-Phile 3

Featuring: User Groups and Clubs

Written By
Knight Lightning and Taran King

On June 10, 1986

\`\`\
Welcome to issue 3 of Phrack Pro-Phile. The information herein was originally
supposed to appear as a special issue of PWN, but instead was made this issue's
Phrack Pro-Phile. Taran King and I have collected much information about the
different clubs and groups of today and yesterday and compiled in the form that
you will now see.
\`\`\
Extasyy Elite: The story of Extasyy Elite is a sad one for the group was
                literally destroyed by its own members. The Poltergeist turned
                in all of Extasyy after he got busted for carding. This led
                the authorities to The Mentor who had stolen 30 Apple //es.
                Mentor's bust almost led to The Protestor, but luckily, The
                Mentor was able to warn Protestor in time. (See Phrack World
                News Issue III).

The membership of the club included:

            Bit Blitz   Cisban Evil Priest
            Crustaceo Mutoid   Kleptic Wizard
            The Mentor   The Poltergeist
            The Protestor

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

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

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

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

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

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

Icub (International Computer Underground Bandits):

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

LOD/H: Legion Of Doom/Hackers

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

        Legion Of Hackers   Legion Of Doom
        -----------------   --------------
        Blue Archer   Phucked Agent 04
        Gary Seven   Compu-Phreak
        Kerrang Khan
        Lex Luthor
        Master Of Impact
        Silver Spy (Sysop of Catch 22)
        The Marauder
        The Videosmith

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
                    Jack The Ripper   Sir Gamelord
                    The Stingray

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

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

                    Arthur Dent   Creative Chaos
                    Erik Bloodaxe   Gin Fizz
                    Ninja NYC   Peter Gunn
                    Rudolph Smith (703)   The Godfather (703)

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

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

                    membership now includes:

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

        The complete membership includes:

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

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

                    Dr. Gorey   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.

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

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The Techno-Revolution

by

Doctor Crash

$$$

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

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

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

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

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

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

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

Hacking must continue. We must train newcomers to the art of hacking. We

must also increase computer Crashing. I know that crashing a computer seems a
waste, but when there is no other way to subvert a business, their system must
be shut down.

    As I stated above, this is only on the motives. If you need a tutorial on
how to perform any of the above stated methods, please read a file on it. And
whatever you do, continue the fight. Whether you know it or not, if you are a
hacker, you are a revolutionary. Don't worry, you're on the right side.
- -
    If you have a question or comment about this file or the "techno-
revolution" just leave mail for me on the Metal Shop AE (314)256-7284, or any
other BBS I may happen to be on.

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

by The Leftist

=-=

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

Shower of sparks from nowhere:

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

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

        Fig. A
                      \/\/\//\/\/\/\/\/\/\/\------
                      /\/\/\/\/\/\/\/\/\/\/\------ <- heat this end
                         ^   ^
                         | |
                       spring   flint
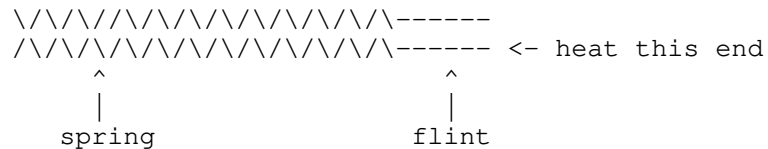
What to do with leftover lighter casing:

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

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

                        The Leftist.
                           ^*^

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                              Unix Nasties

                            By Shooting Shark

                          Written on April 3, 1986
==

Summary: Methods of sabotaging your favorite Unix system.

Preface: I do not advocate utilizing ANY of the methods I put forth in this
          file. Unix is a cool operating system, perhaps one of the best
          systems ever designed in many respects. If you have access to a Unix
          system, you should LEARN UNIX AND LEARN C, because that is where the
          money is in the computer world. However, Unix is a relatively
          insecure operating system which is easy to fuck up. This file
          explains a few ways of doing so.

Crash The System

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

1> Create a file with the following lines:

```
mkdir subdir
cd subdir
source /u1/mydir/crash
```

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

```
% source crash
```

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

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

```
while : ; do
mkdir subdir
cd subdir
done
```

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

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

```
% nohup source crash &
```

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

Slow Down The System Immensely

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

w &
source slow1

create a file called "slow2" with:

source slow1 &
source slow2

and execute slow2 with

% slow2
or
% slow2 &

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

Messing Up A Directory

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

cat > -filename

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

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

Conclusion

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

So Long,
Shooting Shark

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

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

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

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

```
                              *
                              /
                        /=-=-=-=-=-\
                        < 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.

```
      /\            │  /
     /  \           │ /
  /====\           │/
  │    │           │\
  │    lpine        │  racker
```
_____

==Phrack Inc.==

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=-=

Cellular Telephones
[Written By The High Evolutionary]

=-=

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

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

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

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

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

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

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

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

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

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

==Phrack Inc.==

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

!.!

Part 1 contains information on ARPANET and CSNET.
Part 2 contains information on BITNET, MFENET, UUCP and USENET.
It is best if you read both files to better understand each other.

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

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MFENET
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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.

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

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/ luggo !!

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

                      ==Phrack Inc.==

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                 -=+^ Phrack World News ^+=-

                      Issue Five/Part 1

                    Compiled and Written By

                      Knight Lightning

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Where is Taran King?   May 10, 1986

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

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

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

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

As far as Metal Shop Private...

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

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

Metal Shop AE   April 27, 1986

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

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

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

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

Mark Tabas and Karl Marx Busted   May 2, 1986

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

                Information provided by Sally Ride...Space Cadet

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

                                                         May 15, 1986

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

            Information Provided by Jester Sluggo and The Sprinter
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FBI/Wylon In Action

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

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

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

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

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

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

The homes of Cheap Shades and Kleptic Wizard were not searched and their boards
were not looked at. The FBI agent even declined an invitation from Kleptic
Wizard to see the bbs. This may be because he didn't have a warrant.

                        Information provided by

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Administration Nominations?   May 6, 1986

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

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

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

David Lightman stated that the nominations were made public so that the
Administration members would know of the vote taking place on Administration
BBS
1. Once the nominations were voted on, then the phreaks/hacks would be
formally invited.

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

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

                Some Information Provided by David Lightman

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Trouble in Texas   June 2, 1986

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

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

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

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

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

                Information provided by David Lightman and Sir Gamelord

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Ninja NYC/Sigmund Fraud; Close Calls

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

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

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

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

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

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

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

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

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

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

Telecomputist; Printed Newsletter   June 8, 1986

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
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