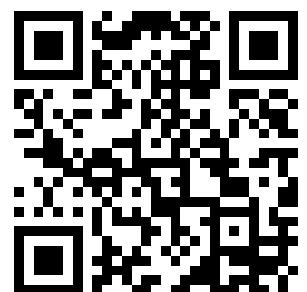

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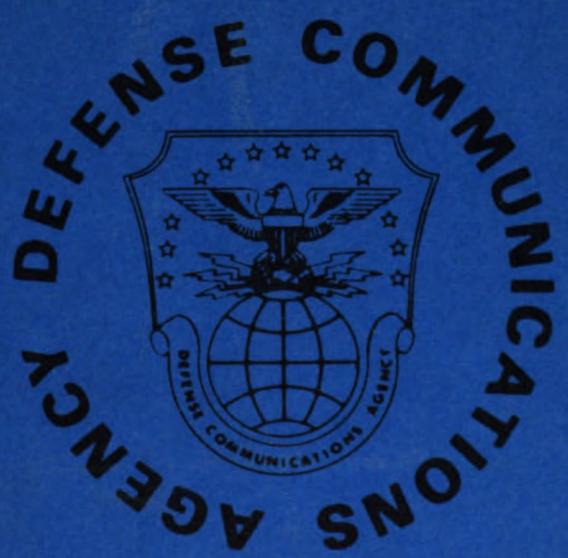


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ARPANET DIRECTORY



DECEMBER 1978

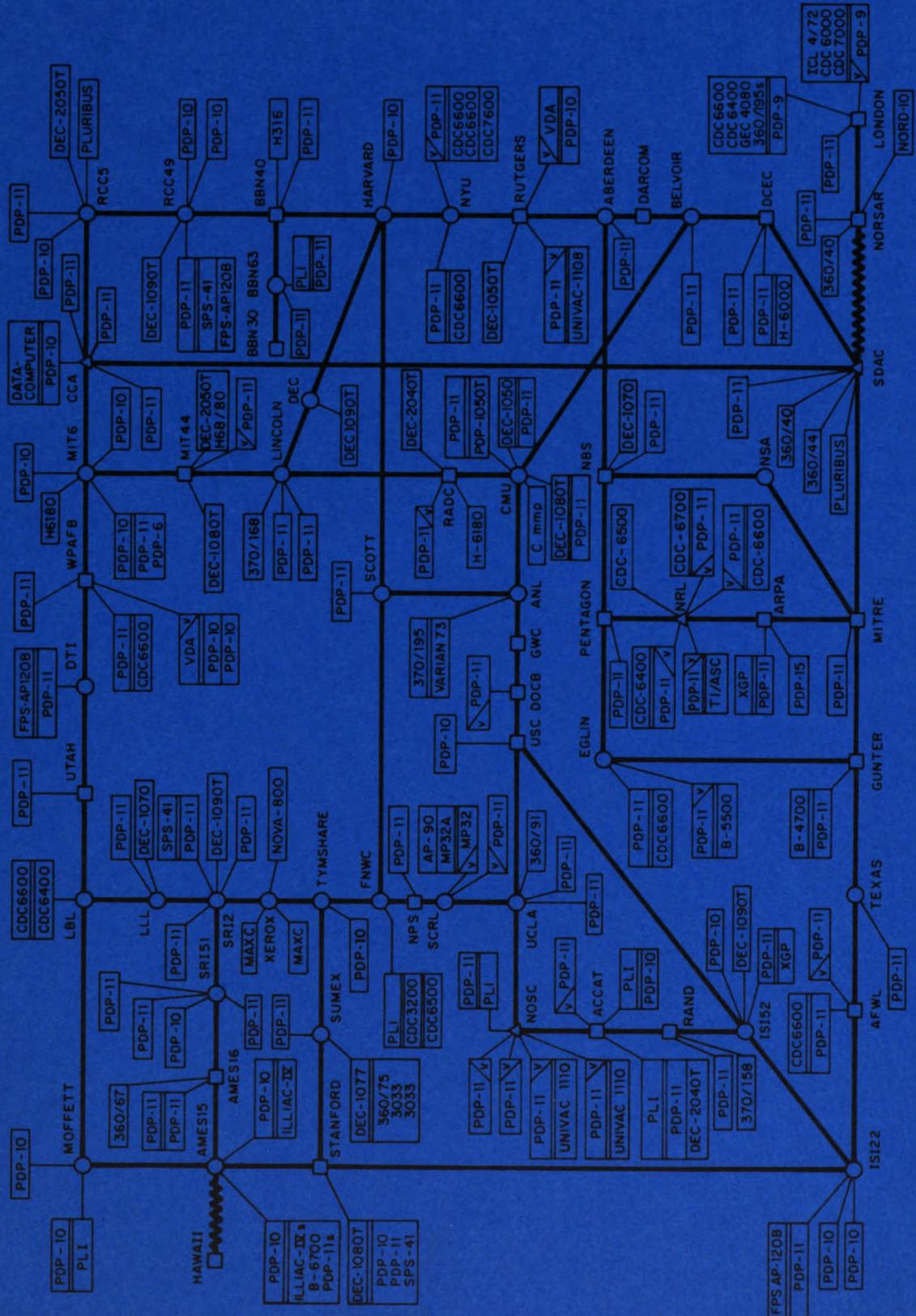
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SRI International
Menlo Park, California 94025

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ARPA NET LOGICAL MAP, SEPTEMBER 1978



PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY. HOST COMPUTER CONFIGURATION SUPPLIED BY THE NET WORK INFORMATION CENTER

NAME'S SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

ARPANET DIRECTORY

CONTENTS

Logical Map	Inside Front Cover
Table of Contents	i
Calendars - 1776 to 2000	ii
Introduction	1
NIC Information	3
ARPANET Information	5
General Contacts	15
Network Sponsors	17
Network Liaison	19
Individuals	21
Individuals Network Addresses	167
Host Acronyms and Liaison	197
Associate Acronyms	221
Hosts and Associates	227
IMP Number/Host Number Table	237
Computers by Host Configuration	241
Computers by Manufacturer	251
U.S. Time Zones and Area Codes	256
Eastern U.S. Area Codes	257
International Time Zones	258
Geographic Map	Inside Back Cover

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BRIEF EXPLANATION OF THIS DIRECTORY

ATTENTION

The ARPANET Directory is the property of the Department of Defense. It is to be used solely for the conduct of, or in support of, official U.S. government business. Its use for advertising, mail distribution lists, or for any other unauthorized purpose is strictly prohibited. Any individuals or hosts who violate this prohibition will have their listings deleted from both this directory and the online system directory.

NIC INFORMATION

Services and documents available from the Network Information Center (NIC) are described in this section of the Directory.

ARPANET INFORMATION

General information, useful definitions, policies, and procedures for using the ARPANET are included in this section.

CONTACTS

Lists general network contacts, as well as the ARPANET Sponsors and the ARPANET Liaison.

INDIVIDUALS

Individuals who are authorized ARPANET users and who have supplied the proper information to the ARPANET Network Information Center are listed alphabetically by last name in the INDIVIDUALS section of the directory. The format is:

INDIVIDUAL'S NAME	NIC IDENT	NETWORK-MAIL-ADDRESS
HARDCOPY-MAIL-ADDRESS		PHONE NUMBER
		HOST NAME or ORGANIZATION IDENT

where

NIC IDENT = a unique code (usually one's initials) by which the NIC Identification System recognizes and locates an individual.

NETWORK-MAIL-ADDRESS is in the form: USER-NAME@HOST-NAME. The HOST NAME portion identifies a computer (host) attached to the ARPANET at which the individual receives delivery of his network mail. The USER NAME portion of the network mail address is the character sequence by which that host identifies the user's incoming mail.

NOTE: The statement 'Network Address Unknown' indicates that no network mail address was received by the NIC from the individual in question.

INTRODUCTION

HOST NAME or ORGANIZATION IDENT = the official identification code for the host with which an individual is associated; or if no ARPANET host exists, an identification code representing the organization with which the individual is associated.

NETWORK MAILBOX INDEX

This table is organized alphabetically by network mailbox along with the corresponding individual's name. It is a subset of the INDIVIDUALS listing and indicates what individuals are associated with which mailboxes.

HOSTS AND ASSOCIATES

Hosts are computers connected to the ARPANET. There are three kinds of hosts: SERVERs, USERs and TIPs. SERVERs have implemented SERVER TELNET and are capable of providing services to remote users across the network. USERs let individuals access resources elsewhere on the network, but do not provide services of their own and have not implemented SERVER TELNET. TIPs are interface message processors with terminal connections. They function as special-case users. Associates are network-related organizations that do not have hosts connected to the ARPANET. Hosts and associates are listed alphabetically by organization name in the format:

ORGANIZATION NAME OFFICIAL HOST NAME or ORGANIZATION IDENT
ORGANIZATION ADDRESS

and by host acronym in the format:

HOST NAME	HOST ADDR	STATUS	SPONSOR	NAME OF LIAISON
				ORGANIZATION NAME
				ORGANIZATION ADDRESS
				LIAISON'S PHONE NO.

or by associate acronym in the format:

ASSOCIATE IDENT	ORGANIZATION NAME
	ORGANIZATION ADDRESS

where

OFFICIAL HOST NAME = a unique acronym, obtained through negotiation with the NIC, by which a host is known on the ARPANET.

ASSOCIATE IDENT = an identification acronym for associate organizations, assigned by the NIC or the sponsoring organization.

HOST NUMBER/IMP NUMBER ASSIGNMENTS

The Host No./IMP No. Table specifies which hosts are attached to each IMP or TIP.

COMPUTERS

The Computer Tables list network hosts organized by computer configuration and by computer manufacturer.

NETWORK INFORMATION CENTER SERVICES

WHAT THE NETWORK INFORMATION CENTER (NIC) DOES

The NIC serves as a center for collection and dissemination of information about the ARPANET. It is located at SRI International in Menlo Park, California. The NIC was begun in 1970 as a research project to develop a prototypical network information center, and up until July 1, 1975 was sponsored by the Defense Advanced Research Projects Agency (DARPA). Currently it is funded by the Defense Communications Agency (DCA) to provide the services outlined below.

PUBLICATIONS

The Network Information Center publishes the following documents:

The ARPANET Directory - A directory of users and hosts on the ARPANET. It gives the names, online and offline mail addresses, phone number, and host affiliation of ARPANET users, as well as summary tables of host information.

The ARPANET Protocol Handbook - A collection of the currently accepted network protocols.

The ARPANET Resource Handbook - a compendium of the resources available on the ARPANET.

NICNOTES - Informal newsnotes distributed online by the NIC to the Liaison and other interested people. NICNOTES are primarily concerned with announcement of changes of hostnames and host addresses on the ARPANET.

ONLINE REFERENCE FILES

THE OFFICIAL ARPANET HOSTNAMES LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>HOSTS.TXT

This file contains the official list of hostnames and host addresses for hosts attached to the ARPANET. It consists of hostname, host address, type of host (i.e., USER, SERVER, or TIP) and host nickname, if any. It is accessible to any network user for reference, and is mainly used to update local hostname recognition tables. The reference file meets criteria outlined in RFC 608.

THE OFFICIAL ARPANET LIAISON LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON.TXT

This file contains name, U. S. mail address, network mail address, phone, and host affiliation for each network Liaison.

NIC INFORMATION

THE LIAISON NETWORK MAIL DISTRIBUTION LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON-SNDMSG.TXT

This file contains network mail addresses for all Network Liaison formatted for online group distribution of messages via SNDMSG.

REQUEST FOR COMMENTS (RFCS)

Current Network Working Group (NWG) papers, known as RFCs, are kept online in the directory <NETINFO> at SRI-KL (66 dec). These are maintained by the Coordinator of the NWG, currently Jon Postel, and are announced via an online distribution list. Each RFC remains online for at least 21 days to give users a chance to obtain copies. Individuals wishing to be added to the RFC notification list should contact Jon Postel (POSTEL@ISIB).

NIC/QUERY

Most of the information contained in the Resource Handbook is maintained online in the directory <NETINFO> at SRI-KL. This information may be viewed through the NIC/QUERY program. The query program is geared toward novice or casual users and is available to all. (See ACCESS TO NIC ONLINE FILES below.)

ACCESS TO NIC ONLINE FILES

Connect to SRI-KL (66 dec) and type:

[@] nic <CR>

where

@ = the SRI-KL TENEX herald
<CR> = a carriage return typed by the user

then follow the instructions that are printed out.

NOTE: Users may use this account for viewing reference files in the NIC/Query system, but they may not use it to access other programs. It cannot be used for linking or loading the FTP program.

HARDCOPY DOCUMENT DISTRIBUTION

The NIC maintains files of many hardcopy documents pertaining to the ARPANET. Although the NIC (since 9/74) does not officially distribute hardcopy documents to network users, it will attempt to honor Interlibrary Loan requests for items in the NIC collection that are not available in the open literature. This service is provided to the extent that funds and staff permit and is not guaranteed.

ARPANET GENERAL INFORMATION

USEFUL DEFINITIONS

INTERFACE MESSAGE PROCESSOR (IMP)

A store and forward packet switch which can accomodate up to four host computers. The original IMPs and TIPs were Honeywell 316 and 516 machines. NOTE: There will not be any additional 316 or 516 IMPs added to the network as Honeywell has stopped manufacturing them.

TERMINAL INTERFACE PROCESSOR (TIP)

A store and forward packet switch which can accomodate up to three host computers and 63 terminals. Each terminal may be either asynchronous or externally clocked, and may operate at speeds up to 2400 baud on input and 19.2 kilobaud on output. Some types of intelligent terminals are also supported.

PLURIBUS INTERFACE MESSAGE PROCESSOR

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 18 host computers, depending upon configuration. This type IMP has higher throughput capacity and can be configured redundantly for improved reliability.

PLURIBUS TERMINAL INTERFACE PROCESSOR (PTIP)

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 12 hosts simultaneously with several hundred terminals. Other characteristics are similar to the Honeywell TIPs.

HOST

A customer-owned computer which is connected to a host port on an IMP or TIP. Hosts may be categorized in two ways:

DISTANT Host - A host which is more than 30 feet, but less than 2,000 feet, from an IMP or TIP.

LOCAL Host - A host located within 30 feet of an IMP or TIP.

VERY DISTANT Host - A host which is located over 2,000 feet from an IMP or TIP and requires modems on its access line.

or

SERVER Host - A host that has implemented SERVER TELNET and is capable of providing computer access to distant users via the network.

USER Host - A host that is not capable of providing computer access across the network, but whose members may use the network to access SERVER Hosts. NOTE: The port taken up by the terminal access on a TIP is considered a special case User, although technically no computer is attached to the TIP port.

ARPANET INFORMATION

TERMINAL

A teletypewriter, CRT, or similar unit which is connected to a terminal port of a TIP.

INTERSWITCH TRUNKS

A circuit between packet switches (e.g., IMPs and TIPs) which is used to pass packets through the network.

ACCESS LINE

A circuit from a host computer or terminal to an IMP or TIP. The circuit may be a local cable or a transmission facility requiring modems.

ARPANET BACKBONE

The switching nodes (e.g., IMPs and TIPs), interfaces, the communication lines interconnecting the nodes, and the Network Control Center (NCC). The backbone is also known as the communications subnet.

SPONSOR

A MILDEP, DoD Agency, or other U. S. Government Agency which is responsible for an ARPANET user(s) and reimburses DCA for the ARPANET backbone costs. The Agency is authorized to sponsor a contractor or other nongovernment activity for access to the ARPANET for the purpose of conducting official U. S. Government business. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.)

NODE

The packet switch; an IMP/TIP or Pluribus IMP/TIP.

WHAT THE ARPANET IS

The ARPANET is an operational, resource sharing, host-to-host network linking a wide variety of computers at research centers sponsored by Defense Advanced Research Projects Agency (DARPA) and other DoD and non-DoD activities in continental United States, Hawaii, Norway, and England.

The ARPANET originated as a purely experimental network in late 1969 under a research and development program sponsored by DARPA to advance the state-of-the-art in computer internetworking. The network was designed to provide efficient communications between heterogeneous computers so that hardware, software, and data resources could be conveniently and economically shared by a wide community of users. As the network successfully attained its initial design goals, additional users were authorized access to the network. Today, the ARPANET provides support for a large number of DoD and non-DoD government projects with an operational network of many nodes and host computers.

Following the successful accomplishment of initial ARPANET design goals and the expansion of the network, it was considered appropriate to transfer the responsibility for operation of the ARPANET from DARPA to the Defense Communications Agency (DCA). In July 1975, the DCA became the operational manager of the ARPANET.

BRIEF DESCRIPTION OF THE ARPANET

The ARPANET is an operational, computerized, packet switching DoD digital network which provides a capability for terminals or geographically separated computers, called hosts, to communicate with each other. The host computers often differ from one another in type, speed, word length, operating system, and other characteristics. Each terminal or host computer is connected into the network through a small local node computer called an IMP or TIP. The complete network is formed by interconnecting the IMPs through wideband communication lines (normally 50,000 bits per second) supplied by common carriers.

Each node is programmed to receive and forward messages to the neighboring nodes in the network. During a typical operation, a host passes a message to its node; the message is passed from node to node through the network until it finally arrives at the destination IMP, which in turn passes it along to the destination host. This process normally takes less than 250 milliseconds.

Hosts communicate with each other via regular messages. A regular message may vary in length from 96 to 8159 bits, the first 96 of which are control bits called the leader. The leader is also used for sending control messages between the host and its IMP or TIP (node). The remainder of the message is the data or text.

For each regular message, the host specifies a destination, consisting of node, host, and handling type. These three parameters uniquely specify a connection between source and destination hosts. The handling type gives the connection specific characteristics, such as priority or non-priority transmission. Additional leader space has been reserved for a fourth parameter, to be used in future internetwork addressing. For each connection, messages are delivered to the destination in the same order that they were transmitted by the source.

For each regular message, the host also specifies a 12-bit identifier, the message-ID. The message-ID, together with the destination of the message, is used as the "name" of the message. The node uses this name to inform the host of the disposition of the message. Therefore, if the host refrains from re-using a particular message-ID value (to a given destination) until the node has responded about that message-ID, messages will remain uniquely identified and the host can retransmit them in the event of a failure within the network.

After receiving a regular message from a host connected to it, a node breaks the message into several packets (currently the maximum data bits per packet is 1008) and passes these through the network in the direction of the destination. Eventually, when all packets arrive at the destination, they are reassembled to form the original message which is passed to the destination host. The destination node returns a positive acknowledgment for receipt of the message to the source host. This acknowledgment is called a Ready for Next Message (RFNM) and identifies the message being acknowledged by name. In some relatively rare cases, however, the message may not be delivered due to a node failure; line disruption, etc., in such cases an Incomplete Transmission message will be returned to the source host instead of a RFNM. In this case the message which was incompletely transmitted is also identified by name.

ARPANET INFORMATION

If a response from the destination node (either RFNM or Incomplete Transmission) is not delivered to the originating host, this condition will be detected by the source node, which will automatically inquire of the destination node whether the original message was correctly received and repeat the inquiry until a response is received from the destination node. This inquiry mechanism is timeout-driven, and each timeout period may vary between 30 and 45 seconds in length.

When a message arrives at its destination node, the leader is modified to indicate the source host, but the message-ID field is passed through unchanged. Thus, in addition to providing message identification between a host and its local node, the message-ID can provide a means for hosts to identify messages between themselves.

Users of the ARPANET may access local or distant SERVER computers (hosts) over the network. They may also exchange messages, create realtime links between users, transfer files from one computer to another, and submit batch jobs to distant computers. For a more complete description of these processes, see the ARPANET Protocol Handbook available from the NIC or the National Technical Information System (NTIS), Springfield, Va. 22161 as AD A052594.

MANAGEMENT OF THE ARPANET

The Director, DCA controls system engineering and exercises operational direction over those operating elements of ARPANET which are part of the backbone. ARPANET user equipment and terminals are non-backbone. ARPANET users must be responsive to management instructions issued by the DCA regarding the ARPANET.

The Director, DCA, will monitor the effectiveness of the ARPANET on a continuing basis, evaluate those matters which have major impact or will impact adversely on the network, and direct action to alleviate or prevent such impact.

ARPANET responsibilities of DCA are

- . To set policies, procedures, and standards for the operation and maintenance of the ARPANET.
- . To approve new user access
- . To lease the backbone and terminal access circuits
- . To maintain the backbone hardware
- . To approve changes in the network
- . To set access criteria
- . To plan, program, and budget for the resources
- . To protect government assets
- . To provide configuration control
- . To coordinate activities impacting the network
- . To act as Chairman of the Network Sponsors Group

- . To evaluate the performance of the network
- . To carry out topology studies
- . To support the Network Information Center (NIC)
- . To collect performance statistics

ARPANET POLICIES

ARPANET policies are outlined in the ARPANET Information Brochure available from the ARPANET Management Branch, Code 535, Washington, D. C. 20305 or from NTIS as AD A052672.

ARPANET SOFTWARE MODIFICATIONS

There are two general procedures for software modifications: 1) patches to correct deficiencies (bugs) in the operating program, 2) changes which are identified and approved for implementation. The software for the IMPs and TIPs is programmed in assembly language for maximum operating efficiency and use of available software. Software changes are tested and debugged at BBN prior to release. The software change releases are scheduled for testing and implementation on Tuesdays between 0700 and 0900 Boston time.

To insure that users are fully aware of major software changes which may affect their operations, changes will be processed in the following manner:

- . A specification will be developed for each approved program change proposal.
- . For those program changes viewed as having potential impact on the users, the specifications will be coordinated with the user prior to coding.
- . Subsequently, a Software Release Notice (SRN) will be distributed to all users as far in advance as possible but not less than 30 days prior to implementation (emergency changes excepted). The SRN will provide the data required to users to adjust to the system change being implemented.

THE NETWORK CONTROL CENTER (NCC)

The Network Control Center (NCC) for the ARPANET is primarily concerned with the reliability of the network, particularly the detection of line failures and IMP or TIP failures. In addition, the NCC monitors volumes of host traffic and line traffic which can give advance warning of network elements whose capacity may need to be increased and which can also be used for site usage accounting. The NCC maintains other data, such as sense switches, auto restart, memory protect settings, etc., and buffer usage for each IMP/TIP. This data is helpful in diagnosing IMP/TIP failures. Due to the constant monitoring of the ARPANET at the NCC, the operational availability of the network is very high (consistently in excess of 99%).

The NCC is located in Cambridge, Massachusetts and is operated by Bolt, Beranek, and Newman, Inc. under contract to the Defense Communications Agency. (See also CONTACTS section.)

ARPANET INFORMATION

THE ARPANET SPONSORS GROUP

The ARPANET Sponsors Group is made up of representatives from the various DoD or U. S. Government Agencies that support the ARPANET. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.) The group considers and makes recommendations to DCA on operational activities and services available on the ARPANET. It also serves as a forum for the exchange of ideas and information on the operation of the ARPANET and of future networks of common interest.

The Sponsors Group normally meets semiannually. Special meetings may be called by the Chairman, if the situation warrants it, prior to the next regularly scheduled meeting. Meetings normally are held in the Washington, D. C. area, but may be held at other locations.

Responsibilities of an ARPANET Sponsor are

- . To process all IMP/TIP and associated hardware requirements through Mildep or agency channels to DCA Code 535 for procurement.
- . To process via DCA Code 535 all requests for access lines, host interfaces, circuit rearrangements, and equipment moves.
- . To review for Approval/Disapproval requests for connection by other sponsors or government agencies, of hosts/terminals to IMPs/TIPs under his control.
- . To insure that all hosts have access control procedures and standards to prevent unauthorized use. Periodically having host accounts reviewed for removal of unauthorized users.
- . To insure that TIP liaisons change TIP Dial-In-Modem numbers as scheduled by DCA Code 535.
- . To see that the Network Liaison promptly report host/terminal connection changes as they occur to the NIC and the NCC.
- . To inform their nodes of ARPANET policies as published in the Sponsors Group Minutes and DCA correspondence.
- . To inform DCA Code 535 of any significant continuing network problems, and file Unsatisfactory Service Reports (USRs) to DCA Code 535 with copies to BBN as necessary.
- . To attend the semiannual ARPANET Sponsors Group Meetings to present problems, define user needs, make recommendations for change in policy, and discuss related network matters.
- . To validate requirements for distribution of ARPANET documentation.

WHO MAY BE A SUBSCRIBER ON THE ARPANET

DOD USERS

Subject to the availability of assets, DoD activities will be connected to the ARPANET provided the requests are processed through normal communications validating channels.

NON-DOD U.S. GOVERNMENT ACTIVITIES

Requests for ARPANET service from non-DoD U.S. Government activities will be considered by DCA on a case-by-case basis.

NON-GOVERNMENT U. S. ACTIVITIES

A DoD or other U. S. Government activity authorized to use the network may sponsor, as a user, a non-government activity performing contract work for the U. S. Government. Justification outlining benefits to the U. S. Government for such access shall be provided to DCA by the sponsoring activity. Cost for network services provided to non-government activities will be allocated to the sponsoring activity.

NON-U. S. ACTIVITIES

Non-U. S. activities will not be directly connected to the ARPANET. Access to the ARPANET may be provided through the facilities of an authorized user if coordinated with DCA.

INFORMATION ON PROCEDURES TO BECOME A SUBSCRIBER

U. S. Government activities requesting ARPANET service must apply to the Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 535, Washington, D. C. 20305. Detailed procedures are contained in the ARPANET Information Brochure, which is available from DCA Code 535 or from NTIS as AD A052672.

Criteria and standards for interface to the ARPANET are specified in the report: Interface Message Processor: Specifications for the Interconnection of a Host and an IMP, Rept. 1822, Bolt Beranek and Newman, Inc., Cambridge, Mass., May 1978 revision, available from NTIS as AD A055996. This report is revised periodically. New criteria and standards developed jointly by DCA, the Military Services, and the Defense Agencies will be promulgated by the DCA. All users are expected to meet ARPANET interface specifications.

ARPANET INFORMATION

FUNDING

The operation and maintenance (O&M) of the ARPANET backbone, i.e., nodes, interfaces, and internode communications circuits, is paid through the Communications Services Industrial Fund (CSIF) which is managed and operated by the Defense Communications Agency. The Defense Commercial Communications Office (DECCO) has responsibility for all leasing actions which take place under the CSIF. This function includes normal contract management activities for the ARPANET. All bills for the CSIF portion of the ARPANET are paid by DECCO. Audits of contractors are performed by the Defense Contract Audit Agency (DCAA) at the request of DECCO. The vehicle used to request communication services is the ARPANET TSR which is forwarded to DECCO from DCA Code 535 as the ARPANET manager. Under the working capital or revolving fund concept, predetermined subscriber rates are the basis for recovering the cost of operating and maintaining the backbone network.

The estimated cost to operate and maintain the ARPANET backbone during a fiscal year, divided by the estimated number of IMPs and TIPs in the network, provides the annual cost per year per node:

$$\frac{\text{Total O\&M Cost}}{\# \text{ IMPs and } \# \text{ TIPs}} = \text{Annual Cost per IMP or TIP}$$

All ARPANET customer activities will be billed monthly based on a predetermined cost for each operational node in the backbone. The monthly rate for FY78 is approx. \$6000 and for FY79 and FY80 approx. \$6500.

SECURITY

The ARPANET communications subnet or 'backbone' contains no security features to insure privacy or the protection of classified defense information transiting the network. Therefore, it is the responsibility of sponsors and those operating hosts on the network to take steps to protect information resident or accessible through their host computers from access by unauthorized users, and to provide protection against unauthorized access to classified information which may reside or be accessible via their host computer link to the network.

There are no "login" procedures for initial network access. All access control is provided at the host level.

A secure subnet is possible by providing hosts with a Private Line Interface (PLI). The PLI has been approved by the National Security Agency (NSA) and costs approximately \$55,000 per copy. The user also has to provide a KG34. The PLI subnet can include up to 128 hosts constrained to 32 nodes.

COMPLAINTS

A complaint center teletype is maintained at the NCC for users reporting problems or seeking assistance. Receiving and processing complaints is not purely an NCC function, thus an additional channel for reporting unsatisfactory service has been developed. The ARPANET Unsatisfactory Service Report (USR) has been established as the formal means of reporting deficiencies with respect to the operations of the ARPANET backbone communications.

Problems or complaints which cannot be resolved through normal channels should be reported by means of the USR. The types of problems to be included are, but are not limited to, the following:

- . Excessive response time
- . Inadequate restoral procedures
- . Unsatisfactory maintenance support

The User (Sponsor) must determine when service has reached an unsatisfactory point. The report may be sent over the ARPANET, AUTODIN, or by U.S. Mail. Reports should be addressed to DCA Code 535 with information copies to the NCC at BBN and any other activity as deemed appropriate by the originators. (See CONTACTS section for addresses.)

USING RESOURCES ON THE ARPANET

Although the Resource Handbook describes resources available for use on the ARPANET, mention of a resource in the Handbook in no way guarantees user access. Access to almost any resource, other than the network itself, is under the control of the host on which the resource resides. In all cases it is assumed that any resource described is available only to authorized users who have valid accounts on the host at which they wish to use a given resource. Accounts should be negotiated with the ACCOUNTS contact or with the LIAISON. (See PERSONNEL under any given host entry)

The ARPANET is intended to be used solely for the conduct of, or in support of, official U. S. Government business.

The use of the ARPANET must not be in violation of information privacy laws and is not intended to compete with existing commercial services.

GENERAL CONTACTS

TIP PHONE NUMBERS

The NIC does not provide TIP phone numbers to network users. Access to a TIP is at the discretion of the Sponsor for a given TIP, and is not guaranteed. To obtain a TIP phone number, contact the Liaison for the TIP to be accessed. (See the HOST ACRONYMS section for a list of TIPs, their corresponding Liaison, and their geographical location.)

ARPANET MANAGEMENT, POLICY, AND SERVICE

Questions regarding general policy or access to the ARPANET or unsatisfactory ARPANET service should be sent to

Director, Defense Communications Agency (DCA)
ATTN: ARPANET Management Branch, Maj. Raymond Czahor
Code 535
Washington, D. C. 20305

(202) 692-6175 or 692-6176 (Commercial)
222-6175 or 222-6176 (Autovon)
DCACODE535@ISI (Online mail)

NETWORK OPERATION AND TRAFFIC

Technical questions concerning network operation and usage should be sent to

Network Control Center (NCC)
ATTN: Paul Santos
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 491-1850 ext 603
SANTOS@BBNE (Online mail)

IMPS, TIPS, AND NETWORK LINE PROBLEMS

Routine questions on IMP and TIP operation and network line problems should be sent to

Network Control Center (NCC)
ATTN: Jim Powers
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 661-0100
POWERS@BBNE (Online mail)

GENERAL CONTACTS

GENERAL NETWORK RESOURCE INFORMATION

Questions regarding what or where resources are located on the network or who to contact should be sent to

Network Information Center (NIC)

ATTN: Elizabeth Feinler

Stanford Research Institute

Menlo Park, California 94025

(415) 326-6200 ext 3695

FEINLER@SRI-KL (Online mail)

PROTOCOLS

Technical questions regarding network protocols should be sent to

Network Working Group Coordinator (NWG)

ATTN: Jon Postel

University of Southern California

Information Science Institute

4676 Admiralty Way

Marina Del Rey, California 90291

(213) 822-1511

POSTEL@USC-ISIB (Online Mail)

NETWORK SPONSORS

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The ARPANET Technical Liaison act as advisors to network users, the Network Information Center, the Network Control Center, and the Defense Communications Agency on technical matters relating to the ARPANET. The Liaison are the chief source of information about individual ARPANET hosts. They often contribute to the design of network protocols and related software and make suggestions for needed changes and improvements through memos, RFCs (network technical notes), and participation in network working groups. The work they do is on a volunteer basis, and they are in themselves a valuable network resource.

The Liaison are traditionally individuals trained in computer science or a related field, and are familiar with the resources available at the host they represent. Each host on the network has no more than one Technical Liaison; however, the same person may serve as liaison for more than one host. The Technical Liaison are coordinated by the Manager of the Network Information Center.

For a list of the names, addresses, network mailboxes, and host affiliations of the ARPANET Technical Liaison, see HOST ACRONYMS section.

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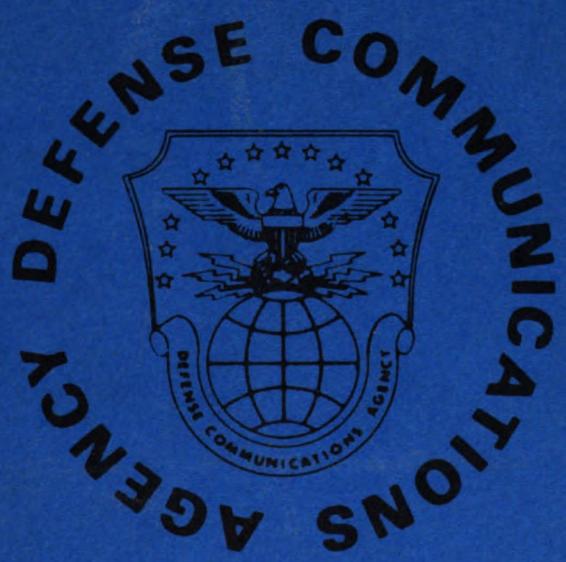
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STANFORD UNIVERSITY
STANFORD, CA 94305

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ARPANET DIRECTORY



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ARPANET LOGICAL MAP, SEPTEMBER 1978



PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY. HOST COMPUTER CONFIGURATION SUPPLIED BY THE NETWORK INFORMATION CENTER
NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

ARPANET DIRECTORY

CONTENTS

Logical Map	Inside Front Cover
Table of Contents	i
Calendars - 1776 to 2000	ii
Introduction	1
NIC Information	3
ARPANET Information	5
General Contacts	15
Network Sponsors	17
Network Liaison	19
Individuals	21
Individuals Network Addresses	167
Host Acronyms and Liaison	197
Associate Acronyms	221
Hosts and Associates	227
IMP Number/Host Number Table	237
Computers by Host Configuration	241
Computers by Manufacturer	251
U.S. Time Zones and Area Codes	256
Eastern U.S. Area Codes	257
International Time Zones	258
Geographic Map	Inside Back Cover

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BRIEF EXPLANATION OF THIS DIRECTORY

ATTENTION

The ARPANET Directory is the property of the Department of Defense. It is to be used solely for the conduct of, or in support of, official U.S. government business. Its use for advertising, mail distribution lists, or for any other unauthorized purpose is strictly prohibited. Any individuals or hosts who violate this prohibition will have their listings deleted from both this directory and the online system directory.

NIC INFORMATION

Services and documents available from the Network Information Center (NIC) are described in this section of the Directory.

ARPANET INFORMATION

General information, useful definitions, policies, and procedures for using the ARPANET are included in this section.

CONTACTS

Lists general network contacts, as well as the ARPANET Sponsors and the ARPANET Liaison.

INDIVIDUALS

Individuals who are authorized ARPANET users and who have supplied the proper information to the ARPANET Network Information Center are listed alphabetically by last name in the INDIVIDUALS section of the directory. The format is:

INDIVIDUAL'S NAME	NIC IDENT	NETWORK-MAIL-ADDRESS
HARDCOPY-MAIL-ADDRESS		PHONE NUMBER
		HOST NAME or ORGANIZATION IDENT

where

NIC IDENT = a unique code (usually one's initials) by which the NIC Identification System recognizes and locates an individual.

NETWORK-MAIL-ADDRESS is in the form: USER-NAME@HOST-NAME. The HOST NAME portion identifies a computer (host) attached to the ARPANET at which the individual receives delivery of his network mail. The USER NAME portion of the network mail address is the character sequence by which that host identifies the user's incoming mail.

NOTE: The statement 'Network Address Unknown' indicates that no network mail address was received by the NIC from the individual in question.

INTRODUCTION

HOST NAME or ORGANIZATION IDENT = the official identification code for the host with which an individual is associated; or if no ARPANET host exists, an identification code representing the organization with which the individual is associated.

NETWORK MAILBOX INDEX

This table is organized alphabetically by network mailbox along with the corresponding individual's name. It is a subset of the INDIVIDUALS listing and indicates what individuals are associated with which mailboxes.

HOSTS AND ASSOCIATES

Hosts are computers connected to the ARPANET. There are three kinds of hosts: SERVERs, USERs and TIPs. SERVERs have implemented SERVER TELNET and are capable of providing services to remote users across the network. USERs let individuals access resources elsewhere on the network, but do not provide services of their own and have not implemented SERVER TELNET. TIPs are interface message processors with terminal connections. They function as special-case users. Associates are network-related organizations that do not have hosts connected to the ARPANET. Hosts and associates are listed alphabetically by organization name in the format:

ORGANIZATION NAME **OFFICIAL HOST NAME or ORGANIZATION IDENT**
ORGANIZATION ADDRESS

and by host acronym in the format:

HOST NAME	HOST ADDR	STATUS	SPONSOR	NAME OF LIAISON ORGANIZATION NAME ORGANIZATION ADDRESS LIAISON'S PHONE NO.
-----------	-----------	--------	---------	---

or by associate acronym in the format:

ASSOCIATE IDENT **ORGANIZATION NAME**
ORGANIZATION ADDRESS

where

OFFICIAL HOST NAME = a unique acronym, obtained through negotiation with the NIC, by which a host is known on the ARPANET.

ASSOCIATE IDENT = an identification acronym for associate organizations, assigned by the NIC or the sponsoring organization.

HOST NUMBER/IMP NUMBER ASSIGNMENTS

The Host No./IMP No. Table specifies which hosts are attached to each IMP or TIP.

COMPUTERS

The Computer Tables list network hosts organized by computer configuration and by computer manufacturer.

NETWORK INFORMATION CENTER SERVICES

WHAT THE NETWORK INFORMATION CENTER (NIC) DOES

The NIC serves as a center for collection and dissemination of information about the ARPANET. It is located at SRI International in Menlo Park, California. The NIC was begun in 1970 as a research project to develop a prototypical network information center, and up until July 1, 1975 was sponsored by the Defense Advanced Research Projects Agency (DARPA). Currently it is funded by the Defense Communications Agency (DCA) to provide the services outlined below.

PUBLICATIONS

The Network Information Center publishes the following documents:

The ARPANET Directory - A directory of users and hosts on the ARPANET. It gives the names, online and offline mail addresses, phone number, and host affiliation of ARPANET users, as well as summary tables of host information.

The ARPANET Protocol Handbook - A collection of the currently accepted network protocols.

The ARPANET Resource Handbook - a compendium of the resources available on the ARPANET.

NICNOTES - Informal newsnotes distributed online by the NIC to the Liaison and other interested people. NICNOTES are primarily concerned with announcement of changes of hostnames and host addresses on the ARPANET.

ONLINE REFERENCE FILES

THE OFFICIAL ARPANET HOSTNAMES LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>HOSTS.TXT

This file contains the official list of hostnames and host addresses for hosts attached to the ARPANET. It consists of hostname, host address, type of host (i.e., USER, SERVER, or TIP) and host nickname, if any. It is accessible to any network user for reference, and is mainly used to update local hostname recognition tables. The reference file meets criteria outlined in RFC 608.

THE OFFICIAL ARPANET LIAISON LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON.TXT

This file contains name, U. S. mail address, network mail address, phone, and host affiliation for each network Liaison.

NIC INFORMATION

THE LIAISON NETWORK MAIL DISTRIBUTION LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON-SNDMSG.TXT

This file contains network mail addresses for all Network Liaison formatted for online group distribution of messages via SNDMSG.

REQUEST FOR COMMENTS (RFCS)

Current Network Working Group (NWG) papers, known as RFCs, are kept online in the directory <NETINFO> at SRI-KL (66 dec). These are maintained by the Coordinator of the NWG, currently Jon Postel, and are announced via an online distribution list. Each RFC remains online for at least 21 days to give users a chance to obtain copies. Individuals wishing to be added to the RFC notification list should contact Jon Postel (POSTEL@ISIB).

NIC/QUERY

Most of the information contained in the Resource Handbook is maintained online in the directory <NETINFO> at SRI-KL. This information may be viewed through the NIC/QUERY program. The query program is geared toward novice or casual users and is available to all. (See ACCESS TO NIC ONLINE FILES below.)

ACCESS TO NIC ONLINE FILES

Connect to SRI-KL (66 dec) and type:

[@] nic <CR>

where

@ = the SRI-KL TENEX herald
<CR> = a carriage return typed by the user

then follow the instructions that are printed out.

NOTE: Users may use this account for viewing reference files in the NIC/Query system, but they may not use it to access other programs. It cannot be used for linking or loading the FTP program.

HARDCOPY DOCUMENT DISTRIBUTION

The NIC maintains files of many hardcopy documents pertaining to the ARPANET. Although the NIC (since 9/74) does not officially distribute hardcopy documents to network users, it will attempt to honor Interlibrary Loan requests for items in the NIC collection that are not available in the open literature. This service is provided to the extent that funds and staff permit and is not guaranteed.

ARPANET GENERAL INFORMATION

USEFUL DEFINITIONS

INTERFACE MESSAGE PROCESSOR (IMP)

A store and forward packet switch which can accomodate up to four host computers. The original IMPs and TIPs were Honeywell 316 and 516 machines. NOTE: There will not be any additional 316 or 516 IMPs added to the network as Honeywell has stopped manufacturing them.

TERMINAL INTERFACE PROCESSOR (TIP)

A store and forward packet switch which can accomodate up to three host computers and 63 terminals. Each terminal may be either asynchronous or externally clocked, and may operate at speeds up to 2400 baud on input and 19.2 kilobaud on output. Some types of intelligent terminals are also supported.

PLURIBUS INTERFACE MESSAGE PROCESSOR

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 18 host computers, depending upon configuration. This type IMP has higher throughput capacity and can be configured redundantly for improved reliability.

PLURIBUS TERMINAL INTERFACE PROCESSOR (PTIP)

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 12 hosts simultaneously with several hundred terminals. Other characteristics are similar to the Honeywell TIPs.

HOST

A customer-owned computer which is connected to a host port on an IMP or TIP. Hosts may be categorized in two ways:

DISTANT Host - A host which is more than 30 feet, but less than 2,000 feet, from an IMP or TIP.

LOCAL Host - A host located within 30 feet of an IMP or TIP.

VERY DISTANT Host - A host which is located over 2,000 feet from an IMP or TIP and requires modems on its access line.

or

SERVER Host - A host that has implemented SERVER TELNET and is capable of providing computer access to distant users via the network.

USER Host - A host that is not capable of providing computer access across the network, but whose members may use the network to access SERVER Hosts. NOTE: The port taken up by the terminal access on a TIP is considered a special case User, although technically no computer is attached to the TIP port.

ARPANET INFORMATION

TERMINAL

A teletypewriter, CRT, or similar unit which is connected to a terminal port of a TIP.

INTERSWITCH TRUNKS

A circuit between packet switches (e.g., IMPs and TIPs) which is used to pass packets through the network.

ACCESS LINE

A circuit from a host computer or terminal to an IMP or TIP. The circuit may be a local cable or a transmission facility requiring modems.

ARPANET BACKBONE

The switching nodes (e.g., IMPs and TIPs), interfaces, the communication lines interconnecting the nodes, and the Network Control Center (NCC). The backbone is also known as the communications subnet.

SPONSOR

A MILDEP, DoD Agency, or other U. S. Government Agency which is responsible for an ARPANET user(s) and reimburses DCA for the ARPANET backbone costs. The Agency is authorized to sponsor a contractor or other nongovernment activity for access to the ARPANET for the purpose of conducting official U. S. Government business. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.)

NODE

The packet switch; an IMP/TIP or Pluribus IMP/TIP.

WHAT THE ARPANET IS

The ARPANET is an operational, resource sharing, host-to-host network linking a wide variety of computers at research centers sponsored by Defense Advanced Research Projects Agency (DARPA) and other DoD and non-DoD activities in continental United States, Hawaii, Norway, and England.

The ARPANET originated as a purely experimental network in late 1969 under a research and development program sponsored by DARPA to advance the state-of-the-art in computer internetworking. The network was designed to provide efficient communications between heterogeneous computers so that hardware, software, and data resources could be conveniently and economically shared by a wide community of users. As the network successfully attained its initial design goals, additional users were authorized access to the network. Today, the ARPANET provides support for a large number of DoD and non-DoD government projects with an operational network of many nodes and host computers.

Following the successful accomplishment of initial ARPANET design goals and the expansion of the network, it was considered appropriate to transfer the responsibility for operation of the ARPANET from DARPA to the Defense Communications Agency (DCA). In July 1975, the DCA became the operational manager of the ARPANET.

BRIEF DESCRIPTION OF THE ARPANET

The ARPANET is an operational, computerized, packet switching DoD digital network which provides a capability for terminals or geographically separated computers, called hosts, to communicate with each other. The host computers often differ from one another in type, speed, word length, operating system, and other characteristics. Each terminal or host computer is connected into the network through a small local node computer called an IMP or TIP. The complete network is formed by interconnecting the IMPs through wideband communication lines (normally 50,000 bits per second) supplied by common carriers.

Each node is programmed to receive and forward messages to the neighboring nodes in the network. During a typical operation, a host passes a message to its node; the message is passed from node to node through the network until it finally arrives at the destination IMP, which in turn passes it along to the destination host. This process normally takes less than 250 milliseconds.

Hosts communicate with each other via regular messages. A regular message may vary in length from 96 to 8159 bits, the first 96 of which are control bits called the leader. The leader is also used for sending control messages between the host and its IMP or TIP (node). The remainder of the message is the data or text.

For each regular message, the host specifies a destination, consisting of node, host, and handling type. These three parameters uniquely specify a connection between source and destination hosts. The handling type gives the connection specific characteristics, such as priority or non-priority transmission. Additional leader space has been reserved for a fourth parameter, to be used in future internetwork addressing. For each connection, messages are delivered to the destination in the same order that they were transmitted by the source.

For each regular message, the host also specifies a 12-bit identifier, the message-ID. The message-ID, together with the destination of the message, is used as the "name" of the message. The node uses this name to inform the host of the disposition of the message. Therefore, if the host refrains from re-using a particular message-ID value (to a given destination) until the node has responded about that message-ID, messages will remain uniquely identified and the host can retransmit them in the event of a failure within the network.

After receiving a regular message from a host connected to it, a node breaks the message into several packets (currently the maximum data bits per packet is 1008) and passes these through the network in the direction of the destination. Eventually, when all packets arrive at the destination, they are reassembled to form the original message which is passed to the destination host. The destination node returns a positive acknowledgment for receipt of the message to the source host. This acknowledgment is called a Ready for Next Message (RFNM) and identifies the message being acknowledged by name. In some relatively rare cases, however, the message may not be delivered due to a node failure; line disruption, etc., in such cases an Incomplete Transmission message will be returned to the source host instead of a RFNM. In this case the message which was incompletely transmitted is also identified by name.

ARPANET INFORMATION

If a response from the destination node (either RFNM or Incomplete Transmission) is not delivered to the originating host, this condition will be detected by the source node, which will automatically inquire of the destination node whether the original message was correctly received and repeat the inquiry until a response is received from the destination node. This inquiry mechanism is timeout-driven, and each timeout period may vary between 30 and 45 seconds in length.

When a message arrives at its destination node, the leader is modified to indicate the source host, but the message-ID field is passed through unchanged. Thus, in addition to providing message identification between a host and its local node, the message-ID can provide a means for hosts to identify messages between themselves.

Users of the ARPANET may access local or distant SERVER computers (hosts) over the network. They may also exchange messages, create realtime links between users, transfer files from one computer to another, and submit batch jobs to distant computers. For a more complete description of these processes, see the ARPANET Protocol Handbook available from the NIC or the National Technical Information System (NTIS), Springfield, Va. 22161 as AD A052594.

MANAGEMENT OF THE ARPANET

The Director, DCA controls system engineering and exercises operational direction over those operating elements of ARPANET which are part of the backbone. ARPANET user equipment and terminals are non-backbone. ARPANET users must be responsive to management instructions issued by the DCA regarding the ARPANET.

The Director, DCA, will monitor the effectiveness of the ARPANET on a continuing basis, evaluate those matters which have major impact or will impact adversely on the network, and direct action to alleviate or prevent such impact.

ARPANET responsibilities of DCA are

- . To set policies, procedures, and standards for the operation and maintenance of the ARPANET.
- . To approve new user access
- . To lease the backbone and terminal access circuits
- . To maintain the backbone hardware
- . To approve changes in the network
- . To set access criteria
- . To plan, program, and budget for the resources
- . To protect government assets
- . To provide configuration control
- . To coordinate activities impacting the network
- . To act as Chairman of the Network Sponsors Group

- . To evaluate the performance of the network
- . To carry out topology studies
- . To support the Network Information Center (NIC)
- . To collect performance statistics

ARPANET POLICIES

ARPANET policies are outlined in the ARPANET Information Brochure available from the ARPANET Management Branch, Code 535, Washington, D. C. 20305 or from NTIS as AD A052672.

ARPANET SOFTWARE MODIFICATIONS

There are two general procedures for software modifications: 1) patches to correct deficiencies (bugs) in the operating program, 2) changes which are identified and approved for implementation. The software for the IMPs and TIPs is programmed in assembly language for maximum operating efficiency and use of available software. Software changes are tested and debugged at BBN prior to release. The software change releases are scheduled for testing and implementation on Tuesdays between 0700 and 0900 Boston time.

To insure that users are fully aware of major software changes which may affect their operations, changes will be processed in the following manner:

- . A specification will be developed for each approved program change proposal.
- . For those program changes viewed as having potential impact on the users, the specifications will be coordinated with the user prior to coding.
- . Subsequently, a Software Release Notice (SRN) will be distributed to all users as far in advance as possible but not less than 30 days prior to implementation (emergency changes excepted). The SRN will provide the data required to users to adjust to the system change being implemented.

THE NETWORK CONTROL CENTER (NCC)

The Network Control Center (NCC) for the ARPANET is primarily concerned with the reliability of the network, particularly the detection of line failures and IMP or TIP failures. In addition, the NCC monitors volumes of host traffic and line traffic which can give advance warning of network elements whose capacity may need to be increased and which can also be used for site usage accounting. The NCC maintains other data, such as sense switches, auto restart, memory protect settings, etc., and buffer usage for each IMP/TIP. This data is helpful in diagnosing IMP/TIP failures. Due to the constant monitoring of the ARPANET at the NCC, the operational availability of the network is very high (consistently in excess of 99%).

The NCC is located in Cambridge, Massachusetts and is operated by Bolt, Beranek, and Newman, Inc. under contract to the Defense Communications Agency. (See also CONTACTS section.)

ARPANET INFORMATION

THE ARPANET SPONSORS GROUP

The ARPANET Sponsors Group is made up of representatives from the various DoD or U. S. Government Agencies that support the ARPANET. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.) The group considers and makes recommendations to DCA on operational activities and services available on the ARPANET. It also serves as a forum for the exchange of ideas and information on the operation of the ARPANET and of future networks of common interest.

The Sponsors Group normally meets semiannually. Special meetings may be called by the Chairman, if the situation warrants it, prior to the next regularly scheduled meeting. Meetings normally are held in the Washington, D. C. area, but may be held at other locations.

Responsibilities of an ARPANET Sponsor are

- . To process all IMP/TIP and associated hardware requirements through Mildep or agency channels to DCA Code 535 for procurement.
- . To process via DCA Code 535 all requests for access lines, host interfaces, circuit rearrangements, and equipment moves.
- . To review for Approval/Disapproval requests for connection by other sponsors or government agencies, of hosts/terminals to IMPs/TIPs under his control.
- . To insure that all hosts have access control procedures and standards to prevent unauthorized use. Periodically having host accounts reviewed for removal of unauthorized users.
- . To insure that TIP liaisons change TIP Dial-In-Modem numbers as scheduled by DCA Code 535.
- . To see that the Network Liaison promptly report host/terminal connection changes as they occur to the NIC and the NCC.
- . To inform their nodes of ARPANET policies as published in the Sponsors Group Minutes and DCA correspondence.
- . To inform DCA Code 535 of any significant continuing network problems, and file Unsatisfactory Service Reports (USRs) to DCA Code 535 with copies to BBN as necessary.
- . To attend the semiannual ARPANET Sponsors Group Meetings to present problems, define user needs, make recommendations for change in policy, and discuss related network matters.
- . To validate requirements for distribution of ARPANET documentation.

WHO MAY BE A SUBSCRIBER ON THE ARPANET

DOD USERS

Subject to the availability of assets, DoD activities will be connected to the ARPANET provided the requests are processed through normal communications validating channels.

NON-DOD U.S. GOVERNMENT ACTIVITIES

Requests for ARPANET service from non-DoD U.S. Government activities will be considered by DCA on a case-by-case basis.

NON-GOVERNMENT U. S. ACTIVITIES

A DoD or other U. S. Government activity authorized to use the network may sponsor, as a user, a non-government activity performing contract work for the U. S. Government. Justification outlining benefits to the U. S. Government for such access shall be provided to DCA by the sponsoring activity. Cost for network services provided to non-government activities will be allocated to the sponsoring activity.

NON-U. S. ACTIVITIES

Non-U. S. activities will not be directly connected to the ARPANET. Access to the ARPANET may be provided through the facilities of an authorized user if coordinated with DCA.

INFORMATION ON PROCEDURES TO BECOME A SUBSCRIBER

U. S. Government activities requesting ARPANET service must apply to the Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 535, Washington, D. C. 20305. Detailed procedures are contained in the ARPANET Information Brochure, which is available from DCA Code 535 or from NTIS as AD A052672.

Criteria and standards for interface to the ARPANET are specified in the report: Interface Message Processor: Specifications for the Interconnection of a Host and an IMP, Rept. 1822, Bolt Beranek and Newman, Inc., Cambridge, Mass., May 1978 revision, available from NTIS as AD A055996. This report is revised periodically. New criteria and standards developed jointly by DCA, the Military Services, and the Defense Agencies will be promulgated by the DCA. All users are expected to meet ARPANET interface specifications.

ARPANET INFORMATION

FUNDING

The operation and maintenance (O&M) of the ARPANET backbone, i.e., nodes, interfaces, and internode communications circuits, is paid through the Communications Services Industrial Fund (CSIF) which is managed and operated by the Defense Communications Agency. The Defense Commercial Communications Office (DECCO) has responsibility for all leasing actions which take place under the CSIF. This function includes normal contract management activities for the ARPANET. All bills for the CSIF portion of the ARPANET are paid by DECCO. Audits of contractors are performed by the Defense Contract Audit Agency (DCAA) at the request of DECCO. The vehicle used to request communication services is the ARPANET TSR which is forwarded to DECCO from DCA Code 535 as the ARPANET manager. Under the working capital or revolving fund concept, predetermined subscriber rates are the basis for recovering the cost of operating and maintaining the backbone network.

The estimated cost to operate and maintain the ARPANET backbone during a fiscal year, divided by the estimated number of IMPs and TIPs in the network, provides the annual cost per year per node:

$$\frac{\text{Total O\&M Cost}}{\# \text{ IMPs and } \# \text{ TIPs}} = \text{Annual Cost per IMP or TIP}$$

All ARPANET customer activities will be billed monthly based on a predetermined cost for each operational node in the backbone. The monthly rate for FY78 is approx. \$6000 and for FY79 and FY80 approx. \$6500.

SECURITY

The ARPANET communications subnet or 'backbone' contains no security features to insure privacy or the protection of classified defense information transiting the network. Therefore, it is the responsibility of sponsors and those operating hosts on the network to take steps to protect information resident or accessible through their host computers from access by unauthorized users, and to provide protection against unauthorized access to classified information which may reside or be accessible via their host computer link to the network.

There are no "login" procedures for initial network access. All access control is provided at the host level.

A secure subnet is possible by providing hosts with a Private Line Interface (PLI). The PLI has been approved by the National Security Agency (NSA) and costs approximately \$55,000 per copy. The user also has to provide a KG34. The PLI subnet can include up to 128 hosts constrained to 32 nodes.

COMPLAINTS

A complaint center teletype is maintained at the NCC for users reporting problems or seeking assistance. Receiving and processing complaints is not purely an NCC function, thus an additional channel for reporting unsatisfactory service has been developed. The ARPANET Unsatisfactory Service Report (USR) has been established as the formal means of reporting deficiencies with respect to the operations of the ARPANET backbone communications.

Problems or complaints which cannot be resolved through normal channels should be reported by means of the USR. The types of problems to be included are, but are not limited to, the following:

- . Excessive response time
- . Inadequate restoral procedures
- . Unsatisfactory maintenance support

The User (Sponsor) must determine when service has reached an unsatisfactory point. The report may be sent over the ARPANET, AUTODIN, or by U.S. Mail. Reports should be addressed to DCA Code 535 with information copies to the NCC at BBN and any other activity as deemed appropriate by the originators. (See CONTACTS section for addresses.)

USING RESOURCES ON THE ARPANET

Although the Resource Handbook describes resources available for use on the ARPANET, mention of a resource in the Handbook in no way guarantees user access. Access to almost any resource, other than the network itself, is under the control of the host on which the resource resides. In all cases it is assumed that any resource described is available only to authorized users who have valid accounts on the host at which they wish to use a given resource. Accounts should be negotiated with the ACCOUNTS contact or with the LIAISON. (See PERSONNEL under any given host entry)

The ARPANET is intended to be used solely for the conduct of, or in support of, official U. S. Government business.

The use of the ARPANET must not be in violation of information privacy laws and is not intended to compete with existing commercial services.

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ARPANET MANAGEMENT, POLICY, AND SERVICE

Questions regarding general policy or access to the ARPANET or unsatisfactory ARPANET service should be sent to

Director, Defense Communications Agency (DCA)
ATTN: ARPANET Management Branch, Maj. Raymond Czahor
Code 535
Washington, D. C. 20305

(202) 692-6175 or 692-6176 (Commercial)
222-6175 or 222-6176 (Autovon)
DCACODE535@ISI (Online mail)

NETWORK OPERATION AND TRAFFIC

Technical questions concerning network operation and usage should be sent to

Network Control Center (NCC)
ATTN: Paul Santos
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 491-1850 ext 603
SANTOS@BBNE (Online mail)

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Network Information Center (NIC)

ATTN: Elizabeth Feinler

Stanford Research Institute

Menlo Park, California 94025

(415) 326-6200 ext 3695

FEINLER@SRI-KL (Online mail)

PROTOCOLS

Technical questions regarding network protocols should be sent to

Network Working Group Coordinator (NWG)

ATTN: Jon Postel

University of Southern California

Information Science Institute

4676 Admiralty Way

Marina Del Rey, California 90291

(213) 822-1511

POSTEL@USC-ISIB (Online Mail)

NETWORK SPONSORS

NAME U. S. Mail Address City, State, Zip	NIC Ident	Network Mail Address Phone Organization ident(s)	HICKEN, George Director National Security Agency Attn: V2, Hicken Ft. Meade, Maryland 20755	IAIPS-G@USC-ISIE (301) 688-6375 NSA
AVRUNIN, I. Larry David Taylor Naval Ship Research and Development Center Code 1804 Bethesda, Maryland 20084	ILA	AVRUNIN@USC-ISIE (202) 227-1492 DTNSRDC	JACQUES, Edward C. Department of Energy Attn: Dr. Edward C. Jacques Office of Computer Services and Telecommunications Management Mail Stop Ca-234 Washington, D.C. 20545	EJ JACQUES@BBN-TENEXB (301) 353-3675 DOE
BIBY, Dennis K. Defense Communications Engineering Center Code R820 1860 Wiehle Avenue Reston, Virginia 22090	DKB2	BIBY@BBN-TENEXB (703) 437-2271 DCEC DCEC-TIP	JAMES, Robert L. Air Force Data Systems Design Center/DMT Management Technology Division Gunter Air Force Base, Alabama 36114	BLJ RJAMES@USC-ISIE (205) 279-4171 GUNTER-TIP GUNTER-UNIX
BOIRE, Glen G. Air Force Global Weather Central (MAC/DOP) Offutt Air Force Base, Nebraska 68113	GGB	AFGWC@BBN-TENEXB (402) 294-4934 GWC-TIP	KIMBALL, H. G. Headquarters National Aeronautics and Space Administration Attn: TN/H. Kimball 600 Independence Avenue, S.W. Washington, D.C. 20546	HGK Network Address Unknown (202) 755-2480 NASA-HQ
CARLSON, William E. Advanced Research Projects Agency (ARPA) Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209	WEC	CARLSON@USC-ISI (202) 694-5037 ARPA-TIP	LAWRENCE, Thomas F. Rome Air Development Center Interactive Processing Section (ISCP) Griffiss Air Force Base, New York 13441	TFL LAWRENCE @RADC-TOPS20 (315) 330-7746 RADC-TIP
CORRIGAN, Michael L. Defense Communications Agency Command and Control Technical Center 11440 Isaac Newton Square Reston, Virginia 22090	MLC	corrigan@CCTC (703) 437-2320 CCTC	LUNDQUIST, Arthur C. Headquarters Air Force Systems Command/ACDT Andrews Air Force Base, Maryland 20334	MB4 LUNDQUIST@BBN-TENEX (301) 981-3137 AFSC-HDQ
CZAHOR, Raymond E. Defense Communications Agency Code 535, Arpanet Management Branch Washington, D.C. 20305	REC	DCACODE535@USC-ISI (202) 692-6175 DCA	PAYNE, Judd A. National Telecommunications and Information Administration 325 South Broadway Boulder, Colorado 80302	JAP judd@NTIA-OTS (303) 499-1000 ext 3200 or 4166 NTIA-ITS
FARISS, Gilbert M. Army Communications Command (ACC) Support Branch Mail Stop C-140 Fort Belvoir, Virginia 22060	GMF	Network Address Unknown (703) 664-5661 BELVOIR	PYKE, Thomas N. National Bureau of Standards Institute for Computer Sciences and Technology Washington, D.C. 20234	TNP PYKE@NBS-10 (301) 921-3436 NBS-10 NBS-UNIX NBS-TIP

NETWORK SPONSORS

THOMAS, John
WWMCCS ADP Directorate
Command and Control Technical
Center
11440 Isaac Newton Square
Reston, Virginia 22090

Network Address Unknown
(703) 437-2320
WWMCCS

NETWORK LIAISON

The ARPANET Technical Liaison act as advisors to network users, the Network Information Center, the Network Control Center, and the Defense Communications Agency on technical matters relating to the ARPANET. The Liaison are the chief source of information about individual ARPANET hosts. They often contribute to the design of network protocols and related software and make suggestions for needed changes and improvements through memos, RFCs (network technical notes), and participation in network working groups. The work they do is on a volunteer basis, and they are in themselves a valuable network resource.

The Liaison are traditionally individuals trained in computer science or a related field, and are familiar with the resources available at the host they represent. Each host on the network has no more than one Technical Liaison; however, the same person may serve as liaison for more than one host. The Technical Liaison are coordinated by the Manager of the Network Information Center.

For a list of the names, addresses, network mailboxes, and host affiliations of the ARPANET Technical Liaison, see HOST ACRONYMS section.

NIC INFORMATION

THE LIAISON NETWORK MAIL DISTRIBUTION LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON-SNDMSG.TXT

This file contains network mail addresses for all Network Liaison formatted for online group distribution of messages via SNDMSG.

REQUEST FOR COMMENTS (RFCS)

Current Network Working Group (NWG) papers, known as RFCs, are kept online in the directory <NETINFO> at SRI-KL (66 dec). These are maintained by the Coordinator of the NWG, currently Jon Postel, and are announced via an online distribution list. Each RFC remains online for at least 21 days to give users a chance to obtain copies. Individuals wishing to be added to the RFC notification list should contact Jon Postel (POSTEL@ISIB).

NIC/QUERY

Most of the information contained in the Resource Handbook is maintained online in the directory <NETINFO> at SRI-KL. This information may be viewed through the NIC/QUERY program. The query program is geared toward novice or casual users and is available to all. (See ACCESS TO NIC ONLINE FILES below.)

ACCESS TO NIC ONLINE FILES

Connect to SRI-KL (66 dec) and type:

[@]nic <CR>

where

@ = the SRI-KL TENEX herald

<CR> = a carriage return typed by the user

then follow the instructions that are printed out.

NOTE: Users may use this account for viewing reference files in the NIC/Query system, but they may not use it to access other programs. It cannot be used for linking or loading the FTP program.

HARDCOPY DOCUMENT DISTRIBUTION

The NIC maintains files of many hardcopy documents pertaining to the ARPANET. Although the NIC (since 9/74) does not officially distribute hardcopy documents to network users, it will attempt to honor Interlibrary Loan requests for items in the NIC collection that are not available in the open literature. This service is provided to the extent that funds and staff permit and is not guaranteed.

ARPANET GENERAL INFORMATION

USEFUL DEFINITIONS

INTERFACE MESSAGE PROCESSOR (IMP)

A store and forward packet switch which can accomodate up to four host computers. The original IMPs and TIPs were Honeywell 316 and 516 machines. NOTE: There will not be any additional 316 or 516 IMPs added to the network as Honeywell has stopped manufacturing them.

TERMINAL INTERFACE PROCESSOR (TIP)

A store and forward packet switch which can accomodate up to three host computers and 63 terminals. Each terminal may be either asynchronous or externally clocked, and may operate at speeds up to 2400 baud on input and 19.2 kilobaud on output. Some types of intelligent terminals are also supported.

PLURIBUS INTERFACE MESSAGE PROCESSOR

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 18 host computers, depending upon configuration. This type IMP has higher throughput capacity and can be configured redundantly for improved reliability.

PLURIBUS TERMINAL INTERFACE PROCESSOR (PTIP)

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 12 hosts simultaneously with several hundred terminals. Other characteristics are similar to the Honeywell TIPs.

HOST

A customer-owned computer which is connected to a host port on an IMP or TIP. Hosts may be categorized in two ways:

DISTANT Host - A host which is more than 30 feet, but less than 2,000 feet, from an IMP or TIP.

LOCAL Host - A host located within 30 feet of an IMP or TIP.

VERY DISTANT Host - A host which is located over 2,000 feet from an IMP or TIP and requires modems on its access line.

or

SERVER Host - A host that has implemented SERVER TELNET and is capable of providing computer access to distant users via the network.

USER Host - A host that is not capable of providing computer access across the network, but whose members may use the network to access SERVER Hosts. NOTE: The port taken up by the terminal access on a TIP is considered a special case User, although technically no computer is attached to the TIP port.

ARPANET INFORMATION

TERMINAL

A teletypewriter, CRT, or similar unit which is connected to a terminal port of a TIP.

INTERSWITCH TRUNKS

A circuit between packet switches (e.g., IMPs and TIPs) which is used to pass packets through the network.

ACCESS LINE

A circuit from a host computer or terminal to an IMP or TIP. The circuit may be a local cable or a transmission facility requiring modems.

ARPANET BACKBONE

The switching nodes (e.g., IMPs and TIPs), interfaces, the communication lines interconnecting the nodes, and the Network Control Center (NCC). The backbone is also known as the communications subnet.

SPONSOR

A MILDEP, DoD Agency, or other U. S. Government Agency which is responsible for an ARPANET user(s) and reimburses DCA for the ARPANET backbone costs. The Agency is authorized to sponsor a contractor or other nongovernment activity for access to the ARPANET for the purpose of conducting official U. S. Government business. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.)

NODE

The packet switch; an IMP/TIP or Pluribus IMP/TIP.

WHAT THE ARPANET IS

The ARPANET is an operational, resource sharing, host-to-host network linking a wide variety of computers at research centers sponsored by Defense Advanced Research Projects Agency (DARPA) and other DoD and non-DoD activities in continental United States, Hawaii, Norway, and England.

The ARPANET originated as a purely experimental network in late 1969 under a research and development program sponsored by DARPA to advance the state-of-the-art in computer internetworking. The network was designed to provide efficient communications between heterogeneous computers so that hardware, software, and data resources could be conveniently and economically shared by a wide community of users. As the network successfully attained its initial design goals, additional users were authorized access to the network. Today, the ARPANET provides support for a large number of DoD and non-DoD government projects with an operational network of many nodes and host computers.

Following the successful accomplishment of initial ARPANET design goals and the expansion of the network, it was considered appropriate to transfer the responsibility for operation of the ARPANET from DARPA to the Defense Communications Agency (DCA). In July 1975, the DCA became the operational manager of the ARPANET.

BRIEF DESCRIPTION OF THE ARPANET

The ARPANET is an operational, computerized, packet switching DoD digital network which provides a capability for terminals or geographically separated computers, called hosts, to communicate with each other. The host computers often differ from one another in type, speed, word length, operating system, and other characteristics. Each terminal or host computer is connected into the network through a small local node computer called an IMP or TIP. The complete network is formed by interconnecting the IMPs through wideband communication lines (normally 50,000 bits per second) supplied by common carriers.

Each node is programmed to receive and forward messages to the neighboring nodes in the network. During a typical operation, a host passes a message to its node; the message is passed from node to node through the network until it finally arrives at the destination IMP, which in turn passes it along to the destination host. This process normally takes less than 250 milliseconds.

Hosts communicate with each other via regular messages. A regular message may vary in length from 96 to 8159 bits, the first 96 of which are control bits called the leader. The leader is also used for sending control messages between the host and its IMP or TIP (node). The remainder of the message is the data or text.

For each regular message, the host specifies a destination, consisting of node, host, and handling type. These three parameters uniquely specify a connection between source and destination hosts. The handling type gives the connection specific characteristics, such as priority or non-priority transmission. Additional leader space has been reserved for a fourth parameter, to be used in future internetwork addressing. For each connection, messages are delivered to the destination in the same order that they were transmitted by the source.

For each regular message, the host also specifies a 12-bit identifier, the message-ID. The message-ID, together with the destination of the message, is used as the "name" of the message. The node uses this name to inform the host of the disposition of the message. Therefore, if the host refrains from re-using a particular message-ID value (to a given destination) until the node has responded about that message-ID, messages will remain uniquely identified and the host can retransmit them in the event of a failure within the network.

After receiving a regular message from a host connected to it, a node breaks the message into several packets (currently the maximum data bits per packet is 1008) and passes these through the network in the direction of the destination. Eventually, when all packets arrive at the destination, they are reassembled to form the original message which is passed to the destination host. The destination node returns a positive acknowledgment for receipt of the message to the source host. This acknowledgment is called a Ready for Next Message (RFNM) and identifies the message being acknowledged by name. In some relatively rare cases, however, the message may not be delivered due to a node failure; line disruption, etc., in such cases an Incomplete Transmission message will be returned to the source host instead of a RFNM. In this case the message which was incompletely transmitted is also identified by name.

ARPANET INFORMATION

If a response from the destination node (either RFNM or Incomplete Transmission) is not delivered to the originating host, this condition will be detected by the source node, which will automatically inquire of the destination node whether the original message was correctly received and repeat the inquiry until a response is received from the destination node. This inquiry mechanism is timeout-driven, and each timeout period may vary between 30 and 45 seconds in length.

When a message arrives at its destination node, the leader is modified to indicate the source host, but the message-ID field is passed through unchanged. Thus, in addition to providing message identification between a host and its local node, the message-ID can provide a means for hosts to identify messages between themselves.

Users of the ARPANET may access local or distant SERVER computers (hosts) over the network. They may also exchange messages, create realtime links between users, transfer files from one computer to another, and submit batch jobs to distant computers. For a more complete description of these processes, see the ARPANET Protocol Handbook available from the NIC or the National Technical Information System (NTIS), Springfield, Va. 22161 as AD A052594.

MANAGEMENT OF THE ARPANET

The Director, DCA controls system engineering and exercises operational direction over those operating elements of ARPANET which are part of the backbone. ARPANET user equipment and terminals are non-backbone. ARPANET users must be responsive to management instructions issued by the DCA regarding the ARPANET.

The Director, DCA, will monitor the effectiveness of the ARPANET on a continuing basis, evaluate those matters which have major impact or will impact adversely on the network, and direct action to alleviate or prevent such impact.

ARPANET responsibilities of DCA are

- . To set policies, procedures, and standards for the operation and maintenance of the ARPANET.
- . To approve new user access
- . To lease the backbone and terminal access circuits
- . To maintain the backbone hardware
- . To approve changes in the network
- . To set access criteria
- . To plan, program, and budget for the resources
- . To protect government assets
- . To provide configuration control
- . To coordinate activities impacting the network
- . To act as Chairman of the Network Sponsors Group

- . To evaluate the performance of the network
- . To carry out topology studies
- . To support the Network Information Center (NIC)
- . To collect performance statistics

ARPANET POLICIES

ARPANET policies are outlined in the ARPANET Information Brochure available from the ARPANET Management Branch, Code 535, Washington, D. C. 20305 or from NTIS as AD A052672.

ARPANET SOFTWARE MODIFICATIONS

There are two general procedures for software modifications: 1) patches to correct deficiencies (bugs) in the operating program, 2) changes which are identified and approved for implementation. The software for the IMPs and TIPs is programmed in assembly language for maximum operating efficiency and use of available software. Software changes are tested and debugged at BBN prior to release. The software change releases are scheduled for testing and implementation on Tuesdays between 0700 and 0900 Boston time.

To insure that users are fully aware of major software changes which may affect their operations, changes will be processed in the following manner:

- . A specification will be developed for each approved program change proposal.
- . For those program changes viewed as having potential impact on the users, the specifications will be coordinated with the user prior to coding.
- . Subsequently, a Software Release Notice (SRN) will be distributed to all users as far in advance as possible but not less than 30 days prior to implementation (emergency changes excepted). The SRN will provide the data required to users to adjust to the system change being implemented.

THE NETWORK CONTROL CENTER (NCC)

The Network Control Center (NCC) for the ARPANET is primarily concerned with the reliability of the network, particularly the detection of line failures and IMP or TIP failures. In addition, the NCC monitors volumes of host traffic and line traffic which can give advance warning of network elements whose capacity may need to be increased and which can also be used for site usage accounting. The NCC maintains other data, such as sense switches, auto restart, memory protect settings, etc., and buffer usage for each IMP/TIP. This data is helpful in diagnosing IMP/TIP failures. Due to the constant monitoring of the ARPANET at the NCC, the operational availability of the network is very high (consistently in excess of 99%).

The NCC is located in Cambridge, Massachusetts and is operated by Bolt, Beranek, and Newman, Inc. under contract to the Defense Communications Agency. (See also CONTACTS section.)

ARPANET INFORMATION

THE ARPANET SPONSORS GROUP

The ARPANET Sponsors Group is made up of representatives from the various DoD or U. S. Government Agencies that support the ARPANET. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.) The group considers and makes recommendations to DCA on operational activities and services available on the ARPANET. It also serves as a forum for the exchange of ideas and information on the operation of the ARPANET and of future networks of common interest.

The Sponsors Group normally meets semiannually. Special meetings may be called by the Chairman, if the situation warrants it, prior to the next regularly scheduled meeting. Meetings normally are held in the Washington, D. C. area, but may be held at other locations.

Responsibilities of an ARPANET Sponsor are

- . To process all IMP/TIP and associated hardware requirements through Mildep or agency channels to DCA Code 535 for procurement.
- . To process via DCA Code 535 all requests for access lines, host interfaces, circuit rearrangements, and equipment moves.
- . To review for Approval/Disapproval requests for connection by other sponsors or government agencies, of hosts/terminals to IMPs/TIPs under his control.
- . To insure that all hosts have access control procedures and standards to prevent unauthorized use. Periodically having host accounts reviewed for removal of unauthorized users.
- . To insure that TIP liaisons change TIP Dial-In-Modem numbers as scheduled by DCA Code 535.
- . To see that the Network Liaison promptly report host/terminal connection changes as they occur to the NIC and the NCC.
- . To inform their nodes of ARPANET policies as published in the Sponsors Group Minutes and DCA correspondence.
- . To inform DCA Code 535 of any significant continuing network problems, and file Unsatisfactory Service Reports (USRs) to DCA Code 535 with copies to BBN as necessary.
- . To attend the semiannual ARPANET Sponsors Group Meetings to present problems, define user needs, make recommendations for change in policy, and discuss related network matters.
- . To validate requirements for distribution of ARPANET documentation.

WHO MAY BE A SUBSCRIBER ON THE ARPANET

DOD USERS

Subject to the availability of assets, DoD activities will be connected to the ARPANET provided the requests are processed through normal communications validating channels.

NON-DOD U.S. GOVERNMENT ACTIVITIES

Requests for ARPANET service from non-DoD U.S. Government activities will be considered by DCA on a case-by-case basis.

NON-GOVERNMENT U. S. ACTIVITIES

A DoD or other U. S. Government activity authorized to use the network may sponsor, as a user, a non-government activity performing contract work for the U. S. Government. Justification outlining benefits to the U. S. Government for such access shall be provided to DCA by the sponsoring activity. Cost for network services provided to non-government activities will be allocated to the sponsoring activity.

NON-U. S. ACTIVITIES

Non-U. S. activities will not be directly connected to the ARPANET. Access to the ARPANET may be provided through the facilities of an authorized user if coordinated with DCA.

INFORMATION ON PROCEDURES TO BECOME A SUBSCRIBER

U. S. Government activities requesting ARPANET service must apply to the Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 535, Washington, D. C. 20305. Detailed procedures are contained in the ARPANET Information Brochure, which is available from DCA Code 535 or from NTIS as AD A052672.

Criteria and standards for interface to the ARPANET are specified in the report: Interface Message Processor: Specifications for the Interconnection of a Host and an IMP, Rept. 1822, Bolt Beranek and Newman, Inc., Cambridge, Mass., May 1978 revision, available from NTIS as AD A055996. This report is revised periodically. New criteria and standards developed jointly by DCA, the Military Services, and the Defense Agencies will be promulgated by the DCA. All users are expected to meet ARPANET interface specifications.

ARPANET INFORMATION

FUNDING

The operation and maintenance (O&M) of the ARPANET backbone, i.e., nodes, interfaces, and internode communications circuits, is paid through the Communications Services Industrial Fund (CSIF) which is managed and operated by the Defense Communications Agency. The Defense Commercial Communications Office (DECCO) has responsibility for all leasing actions which take place under the CSIF. This function includes normal contract management activities for the ARPANET. All bills for the CSIF portion of the ARPANET are paid by DECCO. Audits of contractors are performed by the Defense Contract Audit Agency (DCAA) at the request of DECCO. The vehicle used to request communication services is the ARPANET TSR which is forwarded to DECCO from DCA Code 535 as the ARPANET manager. Under the working capital or revolving fund concept, predetermined subscriber rates are the basis for recovering the cost of operating and maintaining the backbone network.

The estimated cost to operate and maintain the ARPANET backbone during a fiscal year, divided by the estimated number of IMPs and TIPs in the network, provides the annual cost per year per node:

$$\frac{\text{Total O\&M Cost}}{\# \text{ IMPs and } \# \text{ TIPs}} = \text{Annual Cost per IMP or TIP}$$

All ARPANET customer activities will be billed monthly based on a predetermined cost for each operational node in the backbone. The monthly rate for FY78 is approx. \$6000 and for FY79 and FY80 approx. \$6500.

SECURITY

The ARPANET communications subnet or 'backbone' contains no security features to insure privacy or the protection of classified defense information transiting the network. Therefore, it is the responsibility of sponsors and those operating hosts on the network to take steps to protect information resident or accessible through their host computers from access by unauthorized users, and to provide protection against unauthorized access to classified information which may reside or be accessible via their host computer link to the network.

There are no "login" procedures for initial network access. All access control is provided at the host level.

A secure subnet is possible by providing hosts with a Private Line Interface (PLI). The PLI has been approved by the National Security Agency (NSA) and costs approximately \$55,000 per copy. The user also has to provide a KG34. The PLI subnet can include up to 128 hosts constrained to 32 nodes.

COMPLAINTS

A complaint center teletype is maintained at the NCC for users reporting problems or seeking assistance. Receiving and processing complaints is not purely an NCC function, thus an additional channel for reporting unsatisfactory service has been developed. The ARPANET Unsatisfactory Service Report (USR) has been established as the formal means of reporting deficiencies with respect to the operations of the ARPANET backbone communications.

Problems or complaints which cannot be resolved through normal channels should be reported by means of the USR. The types of problems to be included are, but are not limited to, the following:

- . Excessive response time
- . Inadequate restoral procedures
- . Unsatisfactory maintenance support

The User (Sponsor) must determine when service has reached an unsatisfactory point. The report may be sent over the ARPANET, AUTODIN, or by U.S. Mail. Reports should be addressed to DCA Code 535 with information copies to the NCC at BBN and any other activity as deemed appropriate by the originators. (See CONTACTS section for addresses.)

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SANTOS@BBNE (Online mail)

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(617) 661-0100
POWERS@BBNE (Online mail)

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ATTN: Elizabeth Feinler

Stanford Research Institute

Menlo Park, California 94025

(415) 326-6200 ext 3695

FEINLER@SRI-KL (Online mail)

PROTOCOLS

Technical questions regarding network protocols should be sent to

Network Working Group Coordinator (NWG)

ATTN: Jon Postel

University of Southern California

Information Science Institute

4676 Admiralty Way

Marina Del Rey, California 90291

(213) 822-1511

POSTEL@USC-ISIB (Online Mail)

NETWORK SPONSORS

NAME U. S. Mail Address City, State, Zip	NIC Ident	Network Mail Address Phone Organization ident(s)	HICKEN, George Director National Security Agency Attn: V2, Hicken Ft. Meade, Maryland 20755	IAIPS-G@USC-ISIE (301) 688-6375 NSA
AVRUNIN, I. Larry David Taylor Naval Ship Research and Development Center Code 1804 Bethesda, Maryland 20084	ILA	AVRUNIN@USC-ISIE (202) 227-1492 DTNSRDC	JACQUES, Edward C. Department of Energy Attn: Dr. Edward C. Jacques Office of Computer Services and Telecommunications Management Mail Stop Ca-234 Washington, D.C. 20545	EJ JACQUES@BBN-TENEXB (301) 353-3675 DOE
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The ARPANET Technical Liaison act as advisors to network users, the Network Information Center, the Network Control Center, and the Defense Communications Agency on technical matters relating to the ARPANET. The Liaison are the chief source of information about individual ARPANET hosts. They often contribute to the design of network protocols and related software and make suggestions for needed changes and improvements through memos, RFCs (network technical notes), and participation in network working groups. The work they do is on a volunteer basis, and they are in themselves a valuable network resource.

The Liaison are traditionally individuals trained in computer science or a related field, and are familiar with the resources available at the host they represent. Each host on the network has no more than one Technical Liaison; however, the same person may serve as liaison for more than one host. The Technical Liaison are coordinated by the Manager of the Network Information Center.

For a list of the names, addresses, network mailboxes, and host affiliations of the ARPANET Technical Liaison, see HOST ACRONYMS section.

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
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**ARPANET DIRECTORY
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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NETWORK ADDRESSES INDEX

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DSDC - DC@USC - ISIE	WILSON, John H.	DSDC - SDM@USC - ISIE	DILLOW, Dot J.
DSDC - DM@USC - ISIE	HUNT, Stephen M.	DSDC - SDM@SRI - KL	MECHLER, Tom L.
DSDC - DMB@USC - ISIE	MCDANIEL, Betty	DSDC - SDMR@USC - ISIE	POWER, Carolyn Frances
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DSDC - LGM@USC - ISIE	DARLING, Bill	DSDC - SYS@USC - ISIE	STAPF, Frances A.
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DSDC - LGM@USC - ISIE	JUCKNIES, Dolores Ellen	DSDC - XO@USC - ISIE	ALDRICH, Sheryl L.
DSDC - LGM@USC - ISIE	MORRIS, Ann M.	DSDC - XO@USC - ISIE	CRABTREE, John L.
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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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NETWORK ADDRESSES INDEX

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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ARPA NETWORK DIRECTORY
NIC 46099 Dec. 1978

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**ARPA NET DIRECTORY
NIC 46099 Dec. 1978**

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**ARPANET DIRECTORY
NIC 46099 Dec. 1978**

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AFWL	0/48	SERVER, Limited	AFSC	Havens, Martin (AFWL@I4-TENEX) Air Force Weapons Laboratory Kirtland Air Force Base Albuquerque, New Mexico 87117 (505) 264-0319
AFWL-TIP	2/48	TIP	AFSC	Maull, Roy (MAULL@BBN-TENEX) Air Force Weapons Lab./ADPT Kirtland Air Force Base, New Mexico 87117 (505) 264-2581
[ALMSA-TIP]	2/61	TIP	ARMY	Nelson, Steve (JAMES@BBNB) Commander Army Communications Command Attn: Steve Nelson, CCNC-STL-S St. Louis, Missouri 63188
AMES-11	3/16	USER	ARPA	Hart, James P. (HART@AMES-67) NASA Ames Research Center Network Graphics Group Mail Stop 233-9 Moffett Field, California 94035 (415) 965-6629
AMES-67	0/16	SERVER	ARPA	Hathaway, Wayne (HATHAWAY@AMES-67) NASA Ames Research Center Computation Division Mail Stop 233-9 Moffett Field, California 94035 (415) 965-6033
AMES-TIP	2/16	TIP	ARPA	Jones, Bill (JONES@I4-TENEX) NASA Ames Research Center Computation Division Mail Stop 233-10 Moffett Field, California 94035 (415) 965-6482
ANL	0/55	SERVER	DOE	Amiot, Lawrence (AMIOT@BBN-TENEX) Argonne National Laboratory Applied Mathematics Division Building 221 9700 South Cass Avenue Argonne, Illinois 60439 (312) 972-5432

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ARPA-XGP11	3/28	USER	ARPA	McLindon, Connie (MCLINDON@ISI) Advanced Research Projects Agency (ARPA) Chief, Management Information Systems Division Office 1400 Wilson Boulevard Arlington, Virginia 22209 (202) 694-3045
ASL	1/48	USER, VDH	ARPA	Hoffman, John P. (JHOFFMAN@ISIC) U.S. Geological Survey Albuquerque Seismological Laboratory Kirtland Air Force Base East Albuquerque, New Mexico 87115 (505) 264-4637
BBN-GATEWAY	3/40	USER, VDH	ARPA	Bressler, Robert (BRESSLER@BBNE) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 477
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BBN-NCC	0/40	USER	DCA	McKenzie, Alex (MCKENZIE@BBNE) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 441

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BBN-TENEX	3/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 505
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BBN-TENEXB	0/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 505
BBN-TENEXD	1/49	SERVER, Limited	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 505
BBN-TENEXE	0/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 505
BBN-TESTIP	2/30	TIP, Magtape	DCA	Santos, Paul (SANTOS@BBN-TENEXE) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 603
BBN-UNIX	0/63	SERVER, Limited	ARPA	Nemeth, Alan G. (agn@BBN-UNIX) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 769

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DCA	DCA	<p>Czahor, Raymond (DCACODE535@ISI) Defense Communications Agency Attn: Code 535, Arpanet Management Branch Washington, D. C. 20305 (202) 692-6175</p>
DCEC	3/20	USER	DCEC	<p>Biby, Dennis K. (BIBY@BBNB) Defense Communications Engineering Center Code R820 1860 Wiehle Avenue Reston, Virginia 22090 (703) 437-2271</p>
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DEC-MARLBORO	1/37	USER	ARPA	<p>Gartley, Carl (LCAMPBELL@SRI-KL) Digital Equipment Corporation DEC System-10 Engineering 200 Forest Street Marlborough, Massachusetts 01752 (617) 481-9511 ext 6570</p>
DOCB-TIP	2/25	TIP	DOC	<p>Walters, William D. (DOCB@ISIE) Department of Commerce National Telecommunications and Information Administration 325 Broadway Boulder, Colorado 80302 (303) 499-1000 ext 4414</p>
DTI	1/12	SERVER, Limited	CCTC	<p>Jones, Paul B. (paul@DTI) Digital Technology, Inc. 302 East John Street Champaign, Illinois 61820 (217) 384-8500</p>

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ETAC	0/59	USER	MAC/ AFGWC	Freimund, Marvin L. (ETAC@BBNB) Air Force Environmental Technical Application Center Scott Air Force Base, Illinois 62225 (618) 256-4542, 256-4440
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LLL-MFE	1/21	SERVER, Limited	DOE	Howard, Barry (HOWARD@LLL-MFE) University of California Lawrence Livermore Laboratory MFE Computer Center L-402 P.O. Box 5509 Livermore, California 94550 (415) 422-4030
LOGICON	1/35	USER, VDH	ARPA	Soleglad, Michael E. (LOGICON@ISI) Logicon, Inc. Applied Data Systems Department (3000) 4010 Sorrento Valley Boulevard P.O. Box 80158 San Diego, California 92138 (714) 455-1330 ext 245
LONDON	0/42	SERVER, Limited	ARPA	Das, Sunil K. (PKT-UCL@SRI-KL) University College London Department of Statistics and Computer Science 44 Gower Street London WC1E 6BT ENGLAND 01-387-7050 (UK)
LONDON-GATEWAY	3/42	USER, VDH	ARPA	Gamble, Hugh R. (GAMBLE@BBND) University College London Department of Statistics and Computer Science 44 Gower Street London WC1E 6BT ENGLAND 01-387-7050 (UK)
LONDON-TIP	2/42	TIP	ARPA	Das, Sunil K. (PKT-UCL@SRI-KL) University College London Department of Statistics and Computer Science 44 Gower Street London WC1E 6BT ENGLAND 01-387-7050 (UK)

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and SITE ADDRESS
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LONDON-VDH	1/42	SERVER, VDH	ARPA	Higginson, Peter L. (KIRSTEIN@ISI) University College London Department of Statistics and Computer Science Gower Street London WC1E 6BT ENGLAND 01-387-7050 (UK)
MIT-AI	2/6	SERVER	ARPA	Knight, Thomas F. (TK@MIT-AI) Massachusetts Institute of Technology Artificial Intelligence Laboratory 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-7807
MIT-DEVMULTICS	3/41	SERVER, Limited	ARPA	Greenberg, Bernard S. (Greenberg@MIT-MULTICS) Honeywell Information Systems Cambridge Information Systems Laboratory 575 Technology Square, 3rd Floor Cambridge, Massachusetts 02139
MIT-DMS	1/6	SERVER	ARPA	Galley, Stuart W. (SWG@MIT-DMS) Massachusetts Institute of Technology Laboratory for Computer Science Dynamic Modeling System 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-1418
MIT-MC	3/44	SERVER	ARPA	Moon, David (MOON@MIT-MC) Massachusetts Institute of Technology Laboratory for Computer Science Mathlab Group 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-6765
MIT-ML	3/6	SERVER, Limited	ARPA	Lewis, V. Ellen (ELLEN@MIT-MC) Massachusetts Institute of Technology Knowledge Based Systems 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-5891

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MIT-MULTICS	0/6	SERVER	ARPA	Scott, Richard (Scott@MIT-MULTICS) Massachusetts Institute of Technology Information Processing Services ARCS 39-417 Cambridge, Massachusetts 02139 (617) 253-7020
MIT-TIP	2/44	TIP	ARPA	Feingold, Oded (Feingold@MIT-MULTICS) Massachusetts Institute of Technology Laboratory for Computer Science Technical Services Group 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-6013
MIT-XX	0/44	SERVER	ARPA	Gerson, Daniel S. (DANG@MIT-DMS) Massachusetts Institute of Technology Laboratory for Computer Science NE43-203 545 Technology Square Cambridge, Massachusetts 02139 (617) 253-1429
MITRE	0/17	SERVER, Limited	DCEC	Poh, Susan S. (POH@ISI) MITRE/METREK Corporation Information Systems Department 1820 Dolley Madison Blvd. Westgate Research Park McLean, Virginia 22101 (703) 827-6185
MITRE-TIP	2/17	TIP	ARPA	Poh, Susan S. (POH@ISI) MITRE/METREK Corporation Information Systems Department 1820 Dolley Madison Blvd. Westgate Research Park McLean, Virginia 22101 (703) 827-6185
MOFFETT-ARC	0/45	SERVER, Limited	ARPA	Lau, Robert S. (LAU@I4-TENEX) Advanced Research Projects Agency (ARPA) Research Center Moffett Field, Unit 1, Bldg. 301 Mountain View, California 94035 (415) 968-9061

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MOFFETT-SUBNET	1/45	USER	ARPA	Lau, Robert S. (LAU@I4-TENEX) Advanced Research Projects Agency (ARPA) Research Center Moffett Field, Unit 1, Bldg. 301 Mountain View, California 94035 (415) 968-9061
NADC	3/8	USER, VDH	NAVY	Calkins, Ted (NADC@OFFICE-1) Naval Air Development Center Attn: Code 8522, Ted Calkins Warminster, Pennsylvania 18974 (215) 441-2474
NBS-10	0/19	SERVER, Limited	NBS	Walker, Justin (JWALKER@NBS-10) National Bureau of Standards Institute for Computer Sciences and Technology Washington, D.C. 20234 (301) 921-2601
NBS-TIP	2/19	TIP	NBS	Nielsen, Frances (NIELSEN@NBS-10) National Bureau of Standards Institute for Computer Sciences and Technology Washington, D.C. 20234 (301) 921-2601
NBS-UNIX	3/19	SERVER, Limited	NBS	Rosenthal, Robert (rmr@NBS-UNIX) National Bureau of Standards Building 225, Room B220 Washington, D.C. 20234 (301) 921-2601
NCC-TIP	2/40	TIP	DCA	Santos, Paul (SANTOS@BBNE) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 603
NCSC	1/53	USER, VDH	NAVY	Brown, David J. (NCSL@OFFICE-1) Naval Coastal Systems Center Code 732 Panama City, Florida 32407 (904) 234-4132
NDRE	1/41	USER, VDH	ARPA	Lundh, Yngvar G. (YNGVAR@SRI-KA) Norwegian Defence Research Establishment P.O. Box 25 2007 Kjeller NORWAY (02) 712660 ext 364

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NDRE-GATEWAY	3/41	USER, VDH	ARPA	Lundh, Yngvar G. (YNGVAR@SRI-KA) Norwegian Defence Research Establishment P.O. Box 25 2007 Kjeller NORWAY (02) 712660 ext 364
NIC	DCA	Feinler, Elizabeth (FEINLER@SRI-KL) SRI International Network Information Center Room J2021 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 3695
NORSAR-40A	0/41	USER	ARPA	Rieber-Mohn, Dag (DAGRM@SRI-KA) Royal Norwegian Council for Scientific and Industrial Research NTNF/NORSAR P.O. Box 51 N2007 Kjeller NORWAY (02) 716915
NORSAR-TIP	2/41	TIP	ARPA	Rieber-Mohn, Dag (DAGRM@SRI-KA) Royal Norwegian Council for Scientific and Industrial Research NTNF/NORSAR P.O. Box 51 N2007 Kjeller NORWAY (02) 716915
NOSC-CC	0/3	SERVER, Limited VDH	NAVY	Unger, Robert A. (NOSC@OFFICE-1) Naval Ocean Systems Center Code 9131 271 Catalina Blvd. San Diego, California 92152 (714) 225-2721
NOSC-SDL	2/3	SERVER, Limited VDH	ARPA	Noel, J. Gregory (Greg@NOSC-SDL) Naval Ocean Systems Center Systems Design Laboratory Code 822 271 Catalina Blvd. San Diego, California 92152 (714) 225-2744

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NOSC-SECURE1	1/3	SERVER, Limited	ARPA	Schilling, Larry (SCHILLING@ISI) Naval Ocean Systems Center Code 713 271 Catalina Blvd. San Diego, California 92152 (714) 225-7131
NOSC-SECURE2	0/35	USER	ARPA	Metzger, John (JMETZGER@USC-ISIB) Naval Ocean Systems Center Code 8321 EDATL Building, 600A 271 Catalina Boulevard San Diego, California 92152 (714) 225-2083
NOSC-SECURE3	3/35	USER	ARPA	Metzger, John (JMETZGER@USC-ISIB) Naval Ocean Systems Center Code 8321 EDATL Building, 600A 271 Catalina Boulevard San Diego, California 92152 (714) 225-2083
NPRDC-UNIX	4/3	SERVER, LIMITED VDH	NAVY	Wolfe, John H. (WOLFE@USC-ECL) Navy Personnel Research and Development Center San Diego, California 92152 (714) 225-7121
NPS	0/33	USER	ARPA	Norman, David (NORMAN@ISIE) W. R. Church Computer Center Naval Postgraduate School Monterey, California 93940 (408) 646-2641
NPS-TIP	2/33	TIP	ARPA	Norman, David (NORMAN@ISIE) W. R. Church Computer Center Naval Postgraduate School Monterey, California 93940 (408) 646-2641
NRL	0/8	SERVER, Limited VDH	NAVY	Shannon, Douglas P. (NRL@OFFICE-1) Naval Research Laboratory Research Computation Center Code 1721 4555 Overlook Avenue, S.W. Washington, D.C. 20375 (202) 767-3884
NSWC-DL	4/8	SERVER, Limited VDH	NAVY	Eliezer, David Naval Surface Weapons Center Code K-601 Dahlgren Laboratory Dahlgren, Virginia (703) 663-7187

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NSWC-WO	2/8	SERVER, Limited VDH	NAVY	Archer, Robert D. (NSWC@OFFICE-1) Naval Surface Weapons Center White Oak Laboratory Code K64 Silver Springs, Maryland 20910 (202) 394-1909
NSA	0/57	SERVER, Limited	NSA	Weiss, Howard S. (DEDWARDS@ISI) Director, National Security Agency Attn: R17 Ft. George G. Meade, Maryland 20755 (301) 796-6380
NTIA-ITS	1/25	SERVER, Limited VDH	DOCB	Payne, Judd A. (judd@NTIA-ITS) National Telecommunications and Information Administration 325 South Broadway Boulder, Colorado 80302 (303) 499-1000 ext 3200 or 4166
NUSC	3/46	USER, VDH	NAVY	Egeland, George S. (NUSC@OFFICE-1) Naval Underwater Systems Center Code 3142 New London, Connecticut 06320 (203) 442-0771 ext 2993
NUSC-NPT	2/9	SERVER, Limited VDH	NAVY	Schneller, Steve (NUSC-NPT@ISIE) Naval Underwater Systems Center Computer Science Department Building 107, Code 4451 Newport, Rhode Island 02840 (401) 841-3078
NWC	3/3	SERVER, VDH	NAVY	Zenor, John J. (NWC@USC-ISIE) Naval Weapons Center Attn: Code 31302, John Zenor China Lake, California 93555 (714) 939-3888
NYU	0/58	SERVER	DOE	Franceschini, Edward (FRANCESCHINI@BBN) New York University Courant Institute of Mathematical Sciences Courant Mathematics and Computing Laboratory 251 Mercer Street New York, New York 10012 (212) 460-7291

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			(Dec)	
OFFICE-1	0/43	SERVER	ARMY	Peters, Jeffrey (PETERS@OFFICE-1) Tymshare, Inc. Augmentation Resources Center 20705 Valley Green Drive Cupertino, California 95014 (408) 446-7259
OFFICE-2	1/43	SERVER	ARMY	Torres, Israel (TORRES@OFFICE-2) Tymshare, Inc. Augmentation Resources Center 20705 Valley Green Drive Cupertino, California 95014 (408) 446-7092
PARC-GATEWAY	1/32	USER	ARPA	Taft, Edward A. (TAFT@PARC-MAXC) Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Road Palo Alto, California 94304 (415) 494-4419
PARC-MAXC	0/32	SERVER, Limited	ARPA	Taft, Edward A. (TAFT@PARC-MAXC) Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Road Palo Alto, California 94304 (415) 494-4419
PARC-MAXC2	2/32	SERVER, Limited	ARPA	Taft Edward A. (TAFT@PARC-MAXC) Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Road Palo Alto, California 94304 (415) 494-4419
PENT-UNIX	3/26	USER	AFDSDC	Muir, Charles W. (muir@ILL-UNIX) The Pentagon Air Force Data Services Center/SFA Room 1D988 Washington, D. C. 20330 (202) 695-6174
PENTAGON-TIP	2/26	TIP	ARPA	Muir, Charles W. (muir@ILL-UNIX) The Pentagon Air Force Data Services Center/SFA Room 1D988 Washington, D. C. 20330 (202) 695-6174

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RADC-MULTICS	0/18	SERVER	RADC	Walker, Robert K. (Walker@RADC-MULTICS) Rome Air Development Center R & D Computer Facility (ISF) Griffiss Air Force Base, New York 13441 (315) 330-2501
RADC-TIP	2/18	TIP	RADC	Walker, Robert K. (Walker@RADC-MULTICS) Rome Air Development Center R & D Computer Facility (ISF) Griffiss Air Force Base, New York 13441 (315) 330-2501
RADC-TOPS20	3/18	SERVER, Limited	RADC	Metzger, Richard (Metzger@RADC-TOPS20) Rome Air Development Center ISCP Griffiss Air Force Base, New York 13441 (315) 330-2846
RADC-XPER	1/18	SERVER, Limited VDH	RADC	Metzger, Richard (Metzger@RADC-TOPS20) Rome Air Development Center ISCP Griffiss Air Force Base, New York 13441 (315) 330-2846
Sharing port with ROCHESTER				
RAND-RCC	0/7	SERVER	ARPA	Wahrman, Mike (mike@RAND-UNIX) The Rand Corporation 1700 Main Street Santa Monica, California 90406 (213) 393-0411 ext 427
RAND-TIP	2/7	TIP	ARPA	Shell, Ron (SHELL@RAND-RCC) The Rand Corporation Computer Services Department 1700 Main Street Santa Monica, California 90406 (213) 393-0411 ext 7195
RAND-UNIX	3/7	SERVER	ARPA	O'Brien, Mike (LIAISON@RAND-UNIX) The Rand Corporation Rand Computation Center 1700 Main Street Santa Monica, California 90406 (213) 393-0411 ext 7879

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ROCHESTER	1/18	USER, VDH	ARPA	Nabielsky, Jose (FELDMAN@SUMEX-AIM) University of Rochester Department of Computer Science Rochester, New York 14627 (716) 275-5671
Sharing port with RADC-XPER				
SAT-VDH	3/63	USER, VDH	ARPA	Bressler, Robert (BRESSLER@BBNE) Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 ext 477
SDAC-44	3/39	SERVER, Limited	ARPA	Hill, Alan R. (SDAC@ISI) Teledyne Geotech Seismic Data Analysis Center P.O. Box 334 Alexandria, Virginia 22313 (703) 836-3882 ext 276
SDAC-CCP	0/39	USER	ARPA	Miller, Douglas (SDAC@ISI) Teledyne Geotech Seismic Data Analysis Center P.O. Box 334 Alexandria, Virginia 22313 (703) 836-3882
SDAC-NEP	2/39	USER	ARPA	Hill, Alan R. (SDAC@ISI) Teledyne Geotech Seismic Data Analysis Center P.O. Box 334 Alexandria, Virginia 22313 (703) 836-3882 ext 276
SDAC-UNIX	1/39	SERVER, Limited	ARPA	Whitaker, Anne D. (SDAC@ISI) Teledyne Geotech Alexandria Laboratories P.O. Box 334 Alexandria, Virginia 22313 (703) 836-3882 ext 286
SRI-C3PO	1/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL) SRI International Telecommunications Sciences Center Building 306B 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 5150

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SRI-KA	0/51	SERVER	ARMY	Goodfellow, Geoffrey S. (GEOFF@SRI-KA) SRI International Interactive Computer Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 3098
SRI-KL	1/2	SERVER	ARPA	Goodfellow, Geoffrey S. (GEOFF@SRI-KA) SRI International Interactive Computer Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 3098
SRI-NSC11	3/2	USER	ARPA	Craighill, Earl (CRAIGHILL@SRI-KL) SRI International Telecommunications Sciences Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 4572
SRI-R2D2	3/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL) SRI International Telecommunications Sciences Center Building 306B 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 5150
SRI-TSC	0/2	USER	ARPA	Craighill, Earl (CRAIGHILL@SRI-KL) SRI International Telecommunications Sciences Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 4572
SRI-UNIX	2/51	SERVER, Limited	ARPA	Bass, John (bass@SRI-UNIX) SRI International Interactive Computer Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 3819
SRI-VIS11	2/2	USER	ARPA	Goodfellow, Geoffrey S. (GEOFF@SRI-KA) SRI International Interactive Computer Center 333 Ravenswood Avenue Menlo Park, California 94025 (415) 326-6200 ext 3098

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SU-AI	0/11	SERVER, Limited	ARPA	Crispin, Mark R. (MRC@SU-AI) Stanford University Artificial Intelligence Laboratory Stanford, California 94305 (415) 497-4712
SU-ISL	1/56	SERVER, Limited VDH	ARPA	Stewart, Larry (LY@SU-AI) Stanford University Information Systems Laboratory Durand Building 105 Stanford, California 94305 (415) 497-4569
SU-TIP	2/11	TIP	ARPA	McCune, Brian P. (BPM@SU-AI) Stanford University Artificial Intelligence Laboratory Stanford, California 94305 (415) 497-4971
SUMEX-AIM	0/56	SERVER	ARPA	Tucker, Robert (TUCKER@SUMEX-AIM) Stanford University Medical Center SUMEX Computer Project, TB105 Stanford, California 94305 (415) 497-5208
UCLA-ATS	0/1	SERVER, Limited	ARPA	Coley, Anita L. (COLEY@ISI) University of California Computer Science Department 3732 Boelter Hall Los Angeles, California 90024 (213) 825-8534
UCLA-CCN	1/1	SERVER	ARPA	Braden, Robert (BRADEN@UCLA-CCN) University of California Office of Academic Computing Math-Science Addition Los Angeles, California 90024 (213) 825-7518
UCLA-SECURITY	2/1	SERVER, Limited	ARPA	Kline, Charles S. (CSK@ISI) University of California Computer Science Department 3532 Boelter Hall Los Angeles, California 90024 (213) 825-2756

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USC-ECL	3/23	SERVER	ARPA	Wiedel, James (WIEDEL@USC-ECL) Univ. of Southern California Engineering Computer Laboratory Powell Hall of Information Sciences Room 204 Los Angeles, California 90007 (213) 741-5520
USC- ISI	1/22	SERVER	ARPA	Russell, Dale S. (DALE@ISIB) Univ. of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, California 90291 (213) 822-1511 ext 189
USC-ISIB	3/52	SERVER, Limited	ARPA	Russell, Dale S. (DALE@ISIB) Univ. of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, California 90291 (213) 822-1511 ext 189
USC-ISIC	2/22	SERVER	ARPA	Russell, Dale S. (DALE@ISIB) Univ. of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, California 90291 (213) 822-1511 ext 189
USC-ISIE	1/52	SERVER	ARPA	Russell, Dale S. (DALE@ISIB) Univ. of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, California 90291 (213) 822-1511 ext 189
USC-TIP	2/23	TIP	ARPA	Pepin, James M. (PEPIN@USC-ECL) Univ. of Southern California School of Electrical Engineering Room 314, Powell Hall of Information Sciences Los Angeles, California 90007 (213) 741-5520
UTAH-11	0/4	USER	ARPA	Randall, George E. (GRANDALL@ISIE) University of Utah Department of Computer Science 3160 Merrill Engineering Bldg. Salt Lake City, Utah 84112 (801) 581-8224

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UTAH-TIP	2/4	TIP	ARPA	Hearn, Anthony C. (HEARN@USC-ECL) University of Utah Department of Computer Science 3160 Merrill Engineering Bldg. Salt Lake City, Utah 84112 (801) 581-8224
UTEXAS	0/62	SERVER, Limited	ARPA	Phillips, David M. (david@UTEXAS) University of Texas Computation Center Austin, Texas 78712 (512) 471-7202
WHARTON	1/46	SERVER, VDH	ARPA	Morgan, Howard (MORGAN@WHARTON) University of Pennsylvania Wharton School of Business Decision Science Department Room W-83, Dietrich Hall Philadelphia, Pennsylvania 19174 (215) 243-7731
WPAFB	0/47	SERVER, Limited	AFSC	Fall, Leonard B. (JANSEN@BBN) Aeronautical Systems Division Computer Center ASD/ADOS Wright-Patterson Air Force Base, Ohio 45433 (513) 255-6377
WPAFB-AFAL	1/47	SERVER, VDH	AFSC	Baker, Robert (BAKER@WPAFB-AFAL) Air Force Avionics Laboratory AFAL/AAF Wright Patterson Air Force Base, Ohio 45433 (513) 255-2446
WPAFB-TIP	2/47	TIP	AFSC	Fall, Leonard B. (JANSEN@BBN) Aeronautical Systems Division Computer Center ASD-ADOS Wright-Patterson Air Force Base, Ohio 45433 (513) 255-6377

HOST ACRONYMS

NOTE: Any host acronym enclosed in [] is an unofficial name selection

Sponsor Acronyms are as follows:

DSDC - Air Force Data Systems Design Center
AFSC - Air Force Systems Command
ARMY - U.S. Army
ARPA - Defense Advanced Research Projects Agency
CCTC - Defense Communications Agency Command and Control Test Center
DCA - Defense Communications Agency
DCEC - Defense Communications Engineering Center
DOCB - U. S. Department of Commerce, Boulder, Colo.
DOE - U. S. Department of Energy
MAC/GWC - Air Force Global Weather Central
NASA - National Aeronautics and Space Administration
NAVY - U. S. Navy
NBS - National Bureau of Standards
NSA - National Security Agency
RADC - Rome Air Development Center

NETWORK ASSOCIATE ACRONYMS

ACC	Associated Computer Consultants P.O. Box 2641 Station A Champaign, Illinois 61820	ARMTE	Army Material Test and Evaluation (ARMTE) Commander White Sands Missile Range Attn: STEWS-TE-PC White Sands Missile Range, New Mexico 88002
ACDA	Arms Control and Disarmament Agency Advanced Technology Division Room 5499 The State Department Washington, D.C. 20541	ARMY-SIG	Army Signal School Signal Towers Fort Gordon, Georgia 30905
ACERL	Army Construction Engineering Research Lab P.O. Box 4005 Champaign, Illinois 61856	ARSG	Army Research and Standardization Group, Europe London, ENGLAND
ACOE	Army Corps of Engineers Waterways Experiment Station P.O. Box 631 Vicksburg, Mississippi 39180	AVRADCOM	Army Aviation Research and Development Command P.O. Box 209 St. Louis, Missouri 63166
AFHRL	Air Force Human Resources Laboratory Lowry Air Force Base, Colorado 80230	BELL-NORTHERN	Bell Northern Research Dept. 3D40 P. O. Box 3511 Station C Ottawa, Ontario K1Y 4H7 CANADA
AFSC-HDQ	Air Force Systems Command, Hq./ACDT Andrews Air Force Base, Washington, D.C. 20334	BROOKINGS	The Brookings Institute 1775 Massachusetts Avenue, N.W. Washington, D.C. 20036
AGMC	Aerospace Guidance and Metrology/MLP Newark Air Force Station, Ohio 43055	CACI	CACI, Inc. 1815 North Fort Myer Drive Arlington, Virginia 22209
AIRMICS	Army Institute for Research in Management Information in Computer Science CSCS/ATY Suite 900 730 Peachtree Street, N.E. Atlanta, Georgia 30308	CAI	Cabledata Associates, Inc. 701 Welch Road Palo Alto, California 94304
AMMRC	Army Materials and Mechanics Research Center Watertown, Massachusetts 02172	CAL-STATE	California State College Department of Political Science 1000 Victoria Street Dominquez Hills, California 90747
AMRDL	Army Air Mobility Research and Development Labs Eustis Directorate Fort Eustis, Virginia 23604	CAL-TECH	California Institute of Technology Physics Department 452-48 Pasadena, California 91125
ANASC	Analytical Assessments Corporation P.O. Box 9695 Marina del Rey, California 90291	CERN	CERN Data Handling Division 1211 Geneve 23 SWITZERLAND
ARCS	Army Ordnance Center and School Aberdeen Proving Ground, Maryland 21005		

ASSOCIATE ACRONYMS

CHIU	University of Chicago Institute for Computer Research Chicago, Illinois 60637	DECISION	Decision Research 1201 Oak Street Eugene, Oregon 94701
COMPASS	Massachusetts Computer Associates, Inc. 26 Princess Street Wakefield, Massachusetts 01880	DIAMOND	Harry Diamond Labs 2800 Powder Mill Road Adelphi, Maryland 20783
COMPSCI	Computer Science Corporation 2251 San Diego Avenue San Diego, California 92110	DIKEWOOD	Dikewood Industries, Inc. 1009 Bradbury Drive, S.E. University Research Park Albuquerque, New Mexico 87106
COMSAT	Communications Satellite Company (COMSAT) Computer Center 22300 COMSAT Drive Clarksburg, Maryland 20734	DMAP	Defense Mapping Agency St. Louis Air Force Station St. Louis, Missouri 63118
COMSAT- WASHINGTON	Communications Satellite Company (COMSAT) Earth Station Transmission Engineering Department 950 L'Enfant Plaza, SW Washington, D.C. 20024	DOE	Department of Energy Office of Computer Services and Telecommunications Management Mail Stop Ca-234 Washington, D.C. 20545
CORADCOM	Communications Research and Development Command (CORRADCOM) Attn: DRDCO-AM Ft. Monmouth, New Jersey 07703	DOT	Department of Transportation Transportation Systems Center (TC) 55 Broadway Cambridge, Massachusetts 02142
CSC	Computer Sciences Corporation Systems Division Mail Code 280 6565 Arlington Boulevard Falls Church, Virginia 22046	DUGWAY	Dugway Proving Ground Dugway, Utah 80220
CYCLADES	Institut de Recherche d'Informatique et d'Automatique (IRIA) Reseau Cyclades 78150 Rocquencourt FRANCE	ECOM	Army Electronics Command Graphics System and Technology Branch Research and Development TSA Fort Monmouth, New Jersey 07703
DARCOM	Army Materiel Development and Readiness Command Systems Network Division 5001 Eisenhower Avenue Alexandria, Virginia 22333	FSTC	Army Foreign Science and Technology Center 220 N. E. 7th Street Charlottesville, Virginia 22901
DDI	Decisions and Designs, Inc. Suite 600 8400 Westpark Drive McLean, Virginia 22101	FUTURE	Institute for the Future 2740 Sand Hill Road Menlo Park, California 94025
		GSGI	Gagliardi Systems Group, Inc. 51 Main Street Salem, New Hampshire 03079

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HARRIS	Harris Electronic Systems Development P.O. Box 37 Melbourne, Florida 32901	KEYDATA	Keydata Corporation 1400 Wilson Boulevard Suite 100 Arlington, Virginia 22209
HAWAII-ALOHA	University of Hawaii The ALOHA System 2540 Dole Street, Holmes 486 Honolulu, Hawaii 96822	LGHF	Electronics Systems Division (ESD/MCI) Stop 36 L.G. Hanscom Field Bedford, Massachusetts 01730
HUMRRO	Human Resources Research Office 300 North Washington Street Alexandria, Virginia 22314	LINKABIT	Linkabit Corporation 10453 Roselle Street University Industrial Park San Diego, California 92121
IBM	International Business Machines 2625 Townsgate Road Westlake Village, California 91361	LOGICA	Logica Ltd. 64 Newman Street London W1A 4SE UNITED KINGDOM
IBMW	IBM Watson Research Center P.O. Box 218 Yorktown Heights, New York 10598	LOSALAMOS	Los Alamos Scientific Laboratory Los Alamos, New Mexico 87545
IDA	Institute for Defense Analysis 100 Prospect Avenue Princeton, New Jersey 08540	MATHTECH	Mathtech, Inc. 4630 Montgomery Ave. Bethesda, Maryland 20014
IFIP	International Federation of Information Processing - Secretariat 3, Rue du Marche' CH-1204 Geneva SWITZERLAND	MCA	Massachusetts Computer Associates, Inc. 26 Princess Street Wakefield, Massachusetts 01880
IIASA	International Institute For Applied Systems Analysis Computer Science 2361 Laxenberg Schloss Laxenberg, AUSTRIA	NAC	Network Analysis Corporation 130 Steamboat Road Great Neck, New York 11024
ILL-UNIX	University of Illinois Computing Services Office Urbana, Illinois 61801	NALCOM	Naval Air Systems Command Code 401-E Jefferson Plaza Bldg. 2 Room 312 1421 Jefferson-Davis Highway Arlington, Virginia 20361
INFOMEDIA	Infimedia Corporation 430 Sherman Avenue Palo Alto, California 94306	NARADCOM	Natick Army Research and Development Command Natick, Massachusetts 01760
KENT	Kent State University Department of Mathematics Kent, Ohio 44242	NASA-HQ	National Aeronautics and Space Administration, Hq. 600 Independence Avenue S.W. Washington, D.C. 20546

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NAVCOSSACT	Naval Command Systems Support Activity NAVCOSSACT Code 10.3 Building 196, WNY Washington, D.C. 20374	OASD	Office of The Secretary of Defense OASD (C31) Information Systems Room 3B252 The Pentagon Washington, D.C. 20301
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NSF	National Science Foundation Division of Information Systems 1800 G Street, N.W. Washington, D.C. 20550	PTC	Pacific Telephone Company Room 703 85 2nd Street San Francisco, California 94105
NSF -DSI	National Science Foundation Division of Science Information Room 1201 1800 G Street, N.W. Washington, D.C. 20550	PURDUE	Purdue University Department of Electrical Engineering West Lafayette, Indiana 47907
NWSC	Naval Weapon Support Center Crane, Indiana 47522		

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RML	Range Measurements Laboratory Attn: ENLD Patrick Air Force Base, Florida 32925	SU-CSL	Stanford University Computer Systems Laboratory Stanford, California 94305
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HOST #/IMP #/ASSIGNMENTS

HOST # / IMP # (Dec)	HOST NAME	STATUS
0/1	UCLA-ATS	SERVER, Limited
1/1	UCLA-CCN	SERVER
2/1	UCLA-SECURITY	SERVER, Limited
0/2	SRI-TSC	USER
1/2	SRI-KL	SERVER
2/2	SRI-VIS11	USER
3/2	SRI-NSC11	USER
0/3	NOSC-CC	SERVER (VDH), Limited
1/3	NOSC-SECURE1	SERVER, Limited
2/3	NOSC-SDL	SERVER (VDH), Limited
3/3	NWC	SERVER (VDH)
4/3	NPRDC-UNIX	SERVER (VDH), Limited
0/4	UTAH-11	USER
2/4	UTAH-TIP	TIP
0/5	BBN-TENEXE	SERVER
1/5	BBN-INLAT	USER
2/5	BBN-PTIP	Pluribus TIP
3/5	BBN-TENEXA	SERVER
0/6	MIT-MULTICS	SERVER
1/6	MIT-DMS	SERVER
2/6	MIT-AI	SERVER
3/6	MIT-ML	SERVER, Limited
0/7	RAND-RCC	SERVER
2/7	RAND-TIP	TIP
3/7	RAND-UNIX	SERVER
0/8	NRL	SERVER (VDH), Limited
1/8	DTNSRDC	SERVER (VDH), Limited
2/8	NSWC-WO	SERVER (VDH), Limited
3/8	NADC	USER (VDH)
4/8	NSWC-DL	SERVER (VDH), Limited
0/9	HARV-10	SERVER, Limited
2/9	NUSC-NPT	SERVER (VDH), Limited
0/10	LL	SERVER, Limited
2/10	LL-XN	SERVER, Limited
3/10	LL-11	USER
0/11	SU-AI	SERVER, Limited
2/11	SU-TIP	TIP
1/12	DTI	SERVER, Limited
0/13	GUNTER-UNIX	SERVER, Limited
2/13	GUNTER-TIP	TIP
0/14	CMU-10B	SERVER, Limited
1/14	CMU-10A	SERVER, Limited
2/14	CMU-10D	SERVER, Limited
3/14	CMU-CMMMP	SERVER, Limited
0/15	I4-TENEX	SERVER
2/15	I4B-TENEX	SERVER, Limited
0/16	AMES-67	SERVER
2/16	AMES-TIP	TIP
3/16	AMES-11	USER
0/17	MITRE	SERVER, Limited
1/17	CTO-DDS	SERVER (VDH), Limited
2/17	MITRE-TIP	TIP
0/18	RADC-MULTICS	SERVER
1/18	RADC-XPER	SERVER (VDH), Limited
1/18	ROCHESTER	USER (VDH)
2/18	RADC-TIP	TIP
3/18	RADC-TOPS20	SERVER, Limited
0/19	NBS-10	SERVER, Limited
2/19	NBS-TIP	TIP
3/19	NBS-UNIX	SERVER, Limited
0/20	CCTC	SERVER, Limited
0/20	EDN-UNIX	SERVER, Limited
2/20	DCEC-TIP	TIP

HOST ADDRESSES

HOST # / IMP # (Dec)	HOST NAME	STATUS
3/20	DCEC	USER
0/21	LLL-COMP	SERVER, Limited
1/21	LLL-MFE	SERVER, Limited
0/22	ISI-SPEECH11	USER
1/22	USC-ISI	SERVER
2/22	USC-ISIC	SERVER
2/23	USC-TIP	TIP
3/23	USC-ECL	SERVER
2/24	GWC-TIP	TIP, Magtape
1/25	NTIA-ITS	SERVER (VDH), Limited
2/25	DOCB-TIP	TIP
2/26	PENTAGON-TIP	TIP
3/26	PENT-UNIX	USER
0/28	ARPA-DMS	SERVER, Limited
2/28	ARPA-TIP	TIP
3/28	ARPA-XGP11	USER
0/29	BRL	USER
2/30	BBN-TESTIP	TIP, Magtape
0/31	CCA-TENEX	SERVER
1/31	CCA-SPEECH	USER
2/31	CCA-SDMS	SERVER
3/31	CCA-SIP	USER
4/31	MIT-DEVMULTICS	SERVER, Limited
0/32	PARC-MAXC	SERVER, Limited
1/32	PARC-GATEWAY	USER
2/32	PARC-MAXC2	SERVER, Limited
0/33	NPS	USER Up
2/33	NPS-TIP	TIP
0/34	LBL	SERVER
1/34	LBL-UNIX	SERVER Limited
0/35	NOSC-SECURE2	USER
1/35	LOGICON	USER (VDH)
2/35	ACCAT-TIP	TIP
3/35	NOSC-SECURE3	USER
2/36	CINCPAC-TIP	TIP
1/37	DEC-MARLBORO	USER
2/38	BRAGG-TIP	TIP
0/39	SDAC-CCP	USER
1/39	SDAC-UNIX	SERVER, Limited
2/39	SDAC-NEP	USER
3/39	SDAC-44	SERVER, Limited
0/40	BBN-NCC	USER
2/40	NCC-TIP	TIP
3/40	BBN-GATEWAY	USER (VDH)
0/41	NORSAR-40A	USER
1/41	NDRE	USER (VDH)
2/41	NORSAR-TIP	TIP
3/41	NDRE-GATEWAY	USER (VDH)
0/42	LONDON	SERVER, Limited
1/42	LONDON-VDH	SERVER (VDH)
2/42	LONDON-TIP	TIP
3/42	LONDON-GATEWAY	USER (VDH)
0/43	OFFICE-1	SERVER
1/43	OFFICE-2	SERVER
0/44	MIT-XX	SERVER
1/44	LL-ASG	SERVER (VDH), Limited
2/44	MIT-TIP	TIP
3/44	MIT-MC	SERVER
0/45	MOFFETT-ARC	SERVER, Limited
1/45	MOFFETT-SUBNET	USER
1/46	WHARTON	SERVER (VDH)
2/46	COLLINS-TIP	TIP, Up 3/79
3/46	NUSC	USER (VDH)
0/47	WPAFB	SERVER, Limited
1/47	WPAFB-AFAL	SERVER (VDH)
2/47	WPAFB-TIP	TIP
0/48	AFWL	SERVER, Limited

HOST # / IMP # (Dec)	HOST NAME	STATUS
1/48	ASL	USER (VDH), Magtape
2/48	AFWL-TIP	TIP
0/49	BBN-TENEXB	SERVER
1/49	BBN-TENEXD	SERVER, Limited
2/49	BBN-SPEECH-11	USER
3/49	BBN-TENEX	SERVER
2/50	DARCOM-TIP	TIP
0/51	SRI-KA	SERVER
1/51	SRI-C3PO	USER
2/51	SRI-UNIX	SERVER, Limited
3/51	SRI-R2D2	USER
0/52	ISI-XGP11	USER
1/52	USC-ISIE	SERVER
3/52	USC-ISIB	SERVER, Limited
0/53	EGLIN	SERVER, Limited
1/53	NCSC	USER
2/54	CHII	SERVER (VDH), Limited
0/55	ANL	SERVER
0/56	SUMEX-AIM	SERVER
1/56	SU-ISL	SERVER (VDH), Limited
0/57	NSA	SERVER, Limited
0/58	NYU	SERVER
1/58	BNL	SERVER (VDH)
0/59	ETAC	USER
2/61	[ALMSA-TIP]	TIP
0/62	UTEXAS	SERVER, Limited
0/63	BBN-UNIX	SERVER, Limited
3/63	SAT-VDH	USER (VDH)
1/64	FNWC	USER
3/64	FNWC-SECURE	USER

COMPUTER CONFIGURATIONS

EXPLANATION

This table is divided into two parts. The first part is organized by Host Name Acronyms and the second by Host Address. (For a definition of host name acronyms, see the HOST ACRONYMS table.)

For each host listed there is a description of the computer configuration for that host. The first computer mentioned in this description is attached to the IMP and is by definition the 'host' computer. Other computers are attached to the host computer as indicated by the arrows.

Text enclosed in parentheses () after the name of a computer describes the operating system in use on that computer.

Text enclosed in brackets [] indicates a computer that is in transition, either in the process of coming up or of being removed.

Type designations are:

S = Server host

U = User host

T = TIP

VDH = Very distant host

NOTE: The configuration of machines on the ARPANET changes often, so this table undoubtedly contains inaccuracies. Send corrections or additions to FEINLER@SRI-KL.

ORGANIZED BY HOST NAME

HOST NAME	HOST/IMP	TYPE	CONFIGURATION/OPERATING SYSTEM
	(Dec)		
ACCAT-TIP	2/35	T	PDP-11/50(RSX-11M) -> CDC-6600(SCOPE)
AFWL	0/48	S	
AFWL-TIP	2/48	T	
[ALMSA-TIP]	2/61	T	
AMES-11	3/16	U	PDP-11/45(RSX11M) -> PDP-11/10
AMES-67	0/16	S	IBM-360/67(TSS/360)
AMES-TIP	2/16	T	
ANL	0/55	S	VARIAN-73 -> IBM-360/75 -> IBM-370/195(OS/MVT, ASP) -> 2 IBM-3033s
ARPA-DMS	0/28	S	PDP-15(DMS)
ARPA-TIP	2/28	T	
ARPA-XGP11	3/28	U	PDP-11/40(ELF) -> Xerox Graphics Printer
ASL	1/48	U	PDP-11/10(ELF)
BBN-GATEWAY	3/40	VDH	PDP-11/40(ELF)
BBN-INLAT	1/5	U	PDP-11/40(Custom built)
BBN-NCC	0/40	U	H-316
BBN-PTIP	2/5	T	Pluribus
BBN-SPEECH-11	2/49	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B
BBN-TENEX	3/49	S	DEC-10(TENEX)
BBN-TENEXA	3/5	S	DEC-2050T(TOPS-20AN)
BBN-TENEXB	0/49	S	DEC-10(TENEX)
BBN-TENEXD	1/49	S	DEC-1090T(TOPS-20AN)
BBN-TENEXE	0/5	S	DEC-10(TENEX)
BBN-TESTIP	2/30	T	
BBN-UNIX	0/63	S	Pluribus(PLI) -> PDP-11/70(UNIX)
BNL	1/58	VDH	PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE) -> CDC-7600(SCOPE, INTERCOM)
BRAGG-TIP	2/38	T	
BRL	0/29	U	PDP-11/40(ANTS, ELF)
CCA-SDMS	2/31	S	PDP-11/70(UNIX)
CCA-SIP	3/31	U	PDP-11/40(SIP custom)
CCA-SPEECH	1/31	U	PDP-11/40(ELF)
CCA-TENEX	0/31	S	DEC-10(TENEX, DATALANGUAGE) -> Tera-bit memory
CCTC	0/20	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
CHII	2/54	VDH	MP-32-> MP-32A -> AP-90(SIGNAL)
CINCPAC-TIP	2/36	T	
CMU-10A	1/14	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
CMU-10B	0/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-10D	2/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-CMMP	3/14	S	5 PDP-11/20s and 11 PDP-11/40s(HYDRA) Multiprocessor
COLLINS-TIP	2/46	T	
CTO-DDS	1/17	VDH	PDP-11/70(UNIX)
DARCOM-TIP	2/50	T	
DCEC	3/20	U	PDP-11/40(RSX11M, RSX11D)
DCEC-TIP	2/20	T	
DEC-MARLBORO	1/37	U	[DEC-2020T(TOPS-20AN)]
DOCB-TIP	2/25	T	
DTI	1/12	S	PDP-11/70(UNIX)
DTNSRDC	1/8	VDH	PDP-11/40(ELF, [UNIX]) -> CDC-6400
EDN-UNIX	0/20	S	PDP-11/70(UNIX)
EGLIN	0/53	S	PDP-11/45(RSX11M) -> CDC-6600(NOSBE)
ETAC	0/59	U	PDP-11/45(ELF)
FNWC	1/64	U	CDC-3200 -> CDC-6500(SCOPE)
FNWC-SECURE	3/64	U	Pluribus(PLI) -> CDC-3200 -> CDC-6500(SCOPE)
GUNTER-TIP	2/13	T	
GUNTER-UNIX	0/13	S	PDP-11/35(UNIX)
GWC-TIP	2/24	T	

COMPUTERS BY HOST

HOST NAME	HOST/IMP	TYPE (Dec)	CONFIGURATION/OPERATING SYSTEM
HARV-10	0/9	S	DEC-10(TOPS-10)
I4-TENEX	0/15	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s-> ILLIAC-IV(ACL)
I4B-TENEX	2/15	S	DEC-10(TENEX) -> ILLIAC-IV(ACL)
ISI-SPEECH11	0/22	S	PDP-11/45(EPOS, DOS) -> FPS AP-120B
ISI-XGP11	0/52	S	PDP-11/40(ELF) -> Xerox Graphics Printer
LBL	0/34	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
LBL-UNIX	1/34	S	PDP-11/34(UNIX)
LL	0/10	S	IBM-370/168(VM/370)
LL-11	3/10	S	PDP-11/45(UNIX)
LL-ASG	1/44	S	PDP-11/50(UNIX)
LL-XN	2/10	S	PDP-11/70(UNIX)
LLL-COMP	0/21	S	PDP-11/70(UNIX)
LLL-MFE	1/21	S	DEC-1070(TOPS-10)
LOGICON	1/35	S	PDP-11/45(UNIX)
LONDON	0/42	S	PDP-9 -> IBM-360/195s dual processor (MVT and HASP) -> GEC-4080(GECOS) -> EPSS Net
LONDON-GATEWAY	3/42	S	VDH PDP-11/35(ELF)
LONDON-TIP	2/42	T	
LONDON-VDH	1/42	S	VDH PDP-9 -EPSS-> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
MIT-AI	2/6	S	DEC-10(ITS)-> PDP-11/20
MIT-DEVMULTICS	4/31	S	H-68/80(MULTICS)
MIT-DMS	1/6	S	DEC-10(ITS)
MIT-MC	3/44	S	DEC-1080(ITS)
MIT-ML	3/6	S	DEC-10(ITS)
MIT-MULTICS	0/6	S	HONEYWELL-6180(MULTICS)
MIT-TIP	2/44	T	
MIT-XX	0/44	S	DEC-2050T(TOPS-20AN)
MITRE	0/17	S	PDP-11/70(UNIX)
MITRE-TIP	2/17	T	
MOFFETT-ARC	0/45	S	DEC-10(TENEX)
MOFFETT-SUBNET	1/45	S	Pluribus(PL1) -> DEC-10(TENEX)
NADC	3/8	U	VDH PDP-11/40(ELF) -> CDC-6600/CYBER 175(KRONOS, NOS)
NBS-10	0/19	S	DEC-1050T(TOPS-10)
NBS-TIP	2/19	T	
NBS-UNIX	3/19	S	PDP-11/45(UNIX) -> Inhouse network
NCC-TIP	2/40	T	
NCSC	1/53	U	VDH PDP-11/40(ELF, [UNIX]) -> B-5500(MCP XVI)
NDRE	1/41	U	VDH NORD-10(SINTRAN-3)
NDRE-GATEWAY	3/41	U	VDH PDP-11/40(ELF)
NORSAR-40A	0/41	U	IBM-360/40(DOS)
NORSAR-TIP	2/41	T	
NOSC-CC	0/3	S	VDH PDP-11/40(UNIX) -> UNIVAC-1110
NOSC-SDL	2/3	S	VDH PDP-11/40(UNIX)
NOSC-SECURE1	1/3	S	Pluribus(PL1) -> PDP-11/70(UNIX)
NOSC-SECURE2	0/35	S	PLI -> DEC-10(TENEX)
NOSC-SECURE3	3/35	U	PLI -> PDP-11/70(UNIX) -> DEC-2040T(TOPS-20AN)
NPRDC-UNIX	4/3	S	VDH PDP-11/70[(UNIX)]
NPS	0/33	U	PDP-11(UNIX)
NPS-TIP	2/33	T	
NRL	0/8	S	VDH PDP-11/40(ELF) -> TI-ASC(GPOS)
NSA	0/57	S	[PDP-11(UNIX)?]
NSWC-DL	4/8	S	VDH PDP-11/40(ELF) -> CDC-6700
NSWC-WO	2/8	S	VDH CDC-6500(NOS)

HOST NAME	HOST/IMP (Dec)	TYPE	CONFIGURATION/OPERATING SYSTEM
NTIA-ITS	1/25	S	PDP-11/40(UNIX)
NUSC	3/46	U	PDP-11/40(ELF, [UNIX]) -> UNIVAC 1108]
NUSC-NPT	2/9	S	PDP-11/70(UNIX)
NWC	3/3	S	PDP-11/40(UNIX, ELF) -> UNIVAC-1110
NYU	0/58	S	PDP-11/40(ELF) -> CDC-6600(NOS)
OFFICE-1	0/43	S	DEC-10(TENEX)
OFFICE-2	1/43	S	DEC-10(TENEX)
PARC-GATEWAY	1/32	U	NOVA-800 -> Internal Net
PARC-MAXC	0/32	S	MAXC(TENEX)
PARC-MAXC2	2/32	S	MAXC(TENEX)
PENT-UNIX	3/26	U	PDP-11/35(UNIX)
PENTAGON-TIP	2/26	T	
RADC-MULTICS	0/18	S	HONEYWELL-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
RADC-TIP	2/18	T	
RADC-TOPS20	3/18	S	DEC-2040T(TOPS-20AN)
RADC-XPER	1/18	S	VDH PDP-11/40(UNIX)
RAND-RCC	0/7	S	IBM-370/158(OS/VS2-MVS, JES2, WYLBUR)
RAND-TIP	2/7	T	
RAND-UNIX	3/7	S	PDP-11/70(UNIX)
ROCHESTER	1/18	U	PDP-11/40(UNIX)
SAT-VDH	3/63	U	PDP-11/34
SDAC-44	3/39	S	IBM-360/44(PS/44)
SDAC-CCP	0/39	U	CCP -> Pluribus
SDAC-NEP	2/39	U	IBM-360/40(DOS/360)
SDAC-UNIX	1/39	S	PDP-11/70(UNIX)
SRI-C3PO	1/51	S	PDP-11/40(ELF) -> PRNet
SRI-KA	0/51	S	DEC-10(TENEX)
SRI-KL	1/2	S	DEC-1090T(TOPS-20AN)
SRI-NSC11	3/2	U	PDP-11/40(ELF) -> SPS-41(DOS)
SRI-R2D2	3/51	U	PDP-11/40(ELF) -> PRNet
SRI-TSC	0/2	U	PDP-11/40(ELF)
SRI-UNIX	2/51	S	PDP-11/40(UNIX)
SRI-VIS11	2/2	S	PDP-11/10
SU-AI	0/11	S	DEC-1080T(WAITS) -> DEC-10(Stanford TOPS-10) -> PDP-11/45 -> SPS-41(DOS)
SU-ISL	1/56	S	VDH PDP-11/34(UNIX)
SU-TIP	2/11	T	
SUMEX-AIM	0/56	S	DEC-1077(TENEX) dual processor
UCLA-ATS	0/1	S	PDP-11/45(ANTS, ELF, UNIX, or UCLA-VMN)
UCLA-CCN	1/1	S	IBM-360/91(OS/MVT and TSO)
UCLA-SECURITY	2/1	S	PDP-11/45(UNIX)
USC-ECL	3/23	S	DEC-10(TENEX)
USC-ISI	1/22	S	DEC-10(TENEX)
USC-ISIB	3/52	S	DEC-10(TENEX)
USC-ISIC	2/22	S	DEC-10(TENEX)
USC-ISIE	1/52	S	DEC-1090T(TOPS-20AN)
USC-TIP	2/23	T	
UTAH-11	0/4	U	PDP-11/45(RSX11M, [UNIX]) -> FPS-AP120B
UTAH-TIP	2/4	T	
UTEXAS	0/62	S	PDP-11/45(UNIX)
WHARTON	1/46	S	VDH [VDA -> DEC-10(TOPS-10)]
WPAFB	0/47	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
WPAFB-AFAL	1/47	S	VDH Pluribus(VDA) -> 2 DEC-10s(TOPS-10) dual processor
WPAFB-TIP	2/47	T	

ORGANIZED BY HOST ADDRESS

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/1	UCLA-ATS	S	PDP-11/45(ANTS, ELF, UNIX, or UCLA-VMN)
1/1	UCLA-CCN	S	IBM-360/91(OS/MVT and TSO)
2/1	UCLA-SECURITY	S	PDP-11/45(UNIX)
0/2	SRI-TSC	S	PDP-11/40(ELF)
1/2	SRI-KL	S	DEC-1090T(TOPS-20AN)
2/2	SRI-VIS11	S	PDP-11/10
3/2	SRI-NSC11	U	PDP-11/40(ELF) -> SPS-41(DOS)
0/3	NOSC-CC	S	PDP-11/40(UNIX) -> UNIVAC-1110
1/3	NOSC-SECURE1	S	Pluribus(PL1) -> PDP-11/70(UNIX)
2/3	NOSC-SDL	S	PDP-11/40(UNIX)
3/3	NWC	S	PDP-11/40(UNIX, ELF) -> UNIVAC-1110
4/3	NPRDC-UNIX	S	PDP-11/70([(UNIX)])
0/4	UTAH-11	U	PDP-11/45(RSX11M,[UNIX]) -> FPS-AP120B
2/4	UTAH-TIP	T	
0/5	BBN-TENEXE	S	DEC-10(TENEX)
1/5	BBN-INLAT	U	PDP-11/40(Custom built)
2/5	BBN-PTIP	T	Pluribus
3/5	BBN-TENEXA	S	DEC-2050T(TOPS-20AN)
0/6	MIT-MULTICS	S	HONEYWELL-6180(MULTICS)
1/6	MIT-DMS	S	DEC-10(ITS)
2/6	MIT-AI	S	DEC-10(ITS)-> PDP-11/20
3/6	MIT-ML	S	DEC-10(ITS)
0/7	RAND-RCC	S	IBM-370/158(OS/VS2-MVS, JES2, WYLBUR)
2/7	RAND-TIP	T	
3/7	RAND-UNIX	S	PDP-11/70(UNIX)
0/8	NRL	S	VDH PDP-11/40(ELF,[UNIX]) -> TI-ASC(GPOS)
1/8	DTNSRDC	S	VDH PDP-11/40(ELF,[UNIX]) -> CDC-6400
2/8	NSWC-WO	S	VDH CDC-6500(NOS)
3/8	NADC	U	VDH PDP-11/40(ELF) ->
			CDC-6600/CYBER 175(KRONOS,NOS)
4/8	NSWC-DL	S	VDH PDP-11/40(ELF) -> CDC-6700
0/9	HARV-10	S	DEC-10(TOPS-10)
2/9	NUSC-NPT	S	PDP-11/70(UNIX)
0/10	LL	S	IBM-370/168(VM/370)
2/10	LL-XN	S	PDP-11/70(UNIX)
3/10	LL-11	S	PDP-11/45(UNIX)
0/11	SU-AI	S	DEC-1080T(WAITS) -> DEC-10(Stanford TOPS-10) -> PDP-11/45 -> SPS-41(DOS)
2/11	SU-TIP	T	
1/12	DTI	S	PDP-11/70(UNIX)
0/13	GUNTER-UNIX	S	PDP-11/35(UNIX)
2/13	GUNTER-TIP	T	
0/14	CMU-10B	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
1/14	CMU-10A	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
2/14	CMU-10D	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
3/14	CMU-CMMP	S	5 PDP-11/20s and 11 PDP-11/40s(HYDRA) Multiprocessor
0/15	I4-TENEX	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s-> ILLIAC-IV(ACL)
2/15	I4B-TENEX	S	DEC-10(TENEX) -> ILLIAC-IV(ACL)
0/16	AMES-67	S	IBM-360/67(TSS/360)
2/16	AMES-TIP	T	
3/16	AMES-11	U	PDP-11/45(RSX11M) -> PDP-11/10
0/17	MITRE	S	PDP-11/70(UNIX)
1/17	CTO-DDS	S	VDH PDP-11/70(UNIX)
2/17	MITRE-TIP	T	

COMPUTERS BY HOST

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/18	RADC-MULTICS	S	HONEYWELL-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
1/18	RADC-XPER	S VDH	PDP-11/40(UNIX)
1/18	ROCHESTER	U VDH	PDP-11/40(UNIX)
2/18	RADC-TIP	T	
3/18	RADC-TOPS20	S	DEC-2040T(TOPS-20AN)
0/19	NBS-10	S	DEC-1050T(TOPS-10)
2/19	NBS-TIP	T	
3/19	NBS-UNIX	S	PDP-11/45(UNIX) -> Inhouse network
0/20	CCTC	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
0/20	EDN-UNIX	S	PDP-11/70(UNIX)
2/20	DCEC-TIP	T	
3/20	DCEC	U	PDP-11/40(RSX11M, RSX11D)
0/21	LLL-COMP	S	PDP-11/70(UNIX)
1/21	LLL-MFE	S	DEC-1070(TOPS-10)
0/22	ISI-SPEECH11	S U	PDP-11/45(EPOS, DOS) -> FPS AP-120B
1/22	USC-ISI	S S	DEC-10(TENEX)
2/22	USC-ISIC	S	DEC-10(TENEX)
2/23	USC-TIP	T	
3/23	USC-ECL	S	DEC-10(TENEX)
2/24	GWC-TIP	T	
1/25	NTIA-ITS	S VDH	PDP-11/40(UNIX)
2/25	DOCB-TIP	T	
2/26	PENTAGON-TIP	T	
3/26	PENT-UNIX	U	PDP-11/35(UNIX)
0/28	ARPA-DMS	S	PDP-15(DMS)
2/28	ARPA-TIP	T	
3/28	ARPA-XGP11	U	PDP-11/40(ELF) -> Xerox Graphics Printer
0/29	BRL	U U	PDP-11/40(ANTS, ELF)
2/30	BBN-TESTIP	T	
0/31	CCA-TENEX	S	DEC-10(TENEX, DATALANGUAGE) -> Tera-bit memory
1/31	CCA-SPEECH	U	PDP-11/40(ELF)
2/31	CCA-SDMS	S	PDP-11/70(UNIX)
3/31	CCA-SIP	S U	PDP-11/40(SIP custom)
4/31	MIT-DEVMULTICS	S S	H-68/80(MULTICS)
0/32	PARC-MAXC	S	MAXC(TENEX)
1/32	PARC-GATEWAY	S U	NOVA-800 -> Internal Net
2/32	PARC-MAXC2	S U	MAXC(TENEX)
0/33	NPS	S U	PDP-11(UNIX)
2/33	NPS-TIP	T S	
0/34	LBL	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
1/34	LBL-UNIX	S	PDP-11/34(UNIX)
0/35	NOSC-SECURE2	S U	PLI -> DEC-10(TENEX)
1/35	LOGICON	U VDH	PDP-11/45(UNIX)
2/35	ACCAT-TIP	T	
3/35	NOSC-SECURE3	U	PLI -> PDP-11/70(UNIX) -> DEC-2040T (TOPS-20AN)
2/36	CINCPAC-TIP	T	
1/37	DEC-MARLBORO	U T	DEC-2020T(TOPS-20AN)
2/38	BRAGG-TIP	T	
0/39	SDAC-CCP	U	CCP -> Pluribus
1/39	SDAC-UNIX	S	PDP-11/70(UNIX)
2/39	SDAC-NEP	S U	IBM-360/40(DOS/360)
3/39	SDAC-44	S U	IBM-360/44(PS/44)
0/40	BBN-NCC	S U	H-316
2/40	NCC-TIP	T	
3/40	BBN-GATEWAY	U VDH	PDP-11/40(ELF)
0/41	NORSAR-40A	U	IBM-360/40(DOS)
1/41	NDRE	U VDH	NORD-10(SINTRAN-3)
2/41	NORSAR-TIP	T	
3/41	NDRE-GATEWAY	U VDH	PDP-11/40(ELF)

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/42	LONDON	S	PDP-9 -> IBM-360/195s dual processor (MVT and HASP) -> GEC-4080(GECOS) -> EPSS Net
1/42	LONDON-VDH	S VDH	PDP-9 -EPSS-> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
2/42	LONDON-TIP	T	
3/42	LONDON-GATEWAY	U	PDP-11/35(ELF)
0/43	OFFICE-1	S	DEC-10(TENEX)
1/43	OFFICE-2	S	DEC-10(TENEX)
0/44	MIT-XX	S	DEC-2050T(TOPS-20AN)
1/44	LL-ASG	S VDH	PDP-11/50(UNIX)
2/44	MIT-TIP	T	
3/44	MIT-MC	S	DEC-1080(ITS)
0/45	MOFFETT-ARC	S	DEC-10(TENEX)
1/45	MOFFETT-SUBNET	U	Pluribus(PLI) -> DEC-10(TENEX)
1/46	WHARTON	S VDH	[VDA -> DEC-10(TOPS-10)]
2/46	COLLINS-TIP	T	
3/46	NUSC	U VDH	[PDP-11/40(ELF, [UNIX]) -> UNIVAC 1108]
0/47	WPAFB	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
1/47	WPAFB-AFAL	S VDH	Pluribus(VDA) -> 2 DEC-10s(TOPS-10) dual processor
2/47	WPAFB-TIP	T	
0/48	AFWL	S	PDP-11/50(RSX-11M) -> CDC-6600(SCOPE)
1/48	ASL	U VDH	PDP-11/10(ELF)
2/48	AFWL-TIP	T	
0/49	BBN-TENEXB	S	DEC-10(TENEX)
1/49	BBN-TENEXD	S	DEC-1090T(TOPS-20AN)
2/49	BBN-SPEECH-11	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B
3/49	BBN-TENEX	S	DEC-10(TENEX)
2/50	DARCOM-TIP	T	
0/51	SRI-KA	S	DEC-10(TENEX)
1/51	SRI-C3PO	U	PDP-11/40(ELF) -> PRNet
2/51	SRI-UNIX	S	PDP-11/40(UNIX)
3/51	SRI-R2D2	U	PDP-11/40(ELF) -> PRNet
0/52	ISI-XGP11	U	PDP-11/40(ELF) -> Xerox Graphics Printer
1/52	USC-ISIE	S	DEC-1090T(TOPS-20AN)
3/52	USC-ISIB	S	DEC-10(TENEX)
0/53	EGLIN	S	PDP-11/45(RSX11M) -> CDC-6600(NOSBE)
1/53	NCSC	U VDH	PDP-11/40(ELF, [UNIX]) -> B-5500(MCP XVI)
2/54	CHII	S VDH	MP-32-> MP-32A -> AP-90(SIGNAL)
0/55	ANL	S	VARIAN-73 -> IBM-360/75 -> IBM-370/195(OS/MVT, ASP) -> 2 IBM-3033s
0/56	SUMEX-AIM	S	DEC-1077(TENEX) dual processor
1/56	SU-ISL	S VDH	PDP-11/34(UNIX)
0/57	NSA	S	[PDP-11(UNIX)?]
0/58	NYU	S	PDP-11/40(ELF) -> CDC-6600(NOS)
1/58	BNL	S VDH	PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE) -> CDC-7600(SCOPE, INTERCOM)
0/59	ETAC	U	PDP-11/45(ELF)
2/61	[ALMSA-TIP]	T	
0/62	UTEXAS	S	PDP-11/45(UNIX)
0/63	BBN-UNIX	S	Pluribus(PLI) -> PDP-11/70(UNIX)
3/63	SAT-VDH	U VDH	PDP-11/34
0/64	FNWC	U	CDC 3200 -> CDC 6500(SCOPE)
3/64	FNWC	U	Pluribus(PLI) -> CDC 3200 -> CDC 6500(SCOPE)

COMPUTERS BY MANUFACTURER

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
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BOLT BERANEK AND NEWMAN [BBN]

PLURIBUS		BBN-PTIP	2/5	Terminal interface
PLI		BBN-UNIX	0/63	Private Line Interface
PLURIBUS		SDAC-CCP	0/39	Seismic data processor
PLI		MOFFETT-	1/45	Private Line Interface
		SUBNET		
PLI		FNWC-SECURE	3/64	Private Line Interface
PLI		NOSC-SECURE1	1/3	Private Line Interface
PLI		NOSC-SECURE2	0/35	Private Line Interface
PLI		NOSC-SECURE3	3/35	Private Line Interface
VDA		WPAFB-AFAL	1/47	Very distant host adapter
VDA		WHARTON	1/46	Very distant host adapter

BURROUGHS

B-5500	MCP	NCSC	1/53	Principal, USER
B-6700		I4-TENEX	0/15	Peripheral processor
ILLIAC-IV	ACL	I4-TENEX	0/15	Principal, SERVER
ILLIAC-IV	ACL	I4B-TENEX	2/15	Principal, SERVER

CONTROL DATA CORPORATION [CDC]

CDC-3200		FNWC	1/64	Communication controller
CDC-6400	SESAME	LBL	0/34	Principal, SERVER
CDC-6400	NOS/BE	DTNSRDC	1/8	Principal, SERVER
CDC-6500	SCOPE	FNWC	1/64	Principal, USER
CDC-6500	NOS	NSWC-WO	2/8	Principal, Ltd SERVER
CDC-6600	SCOPE,	LONDON-VDH	1/42	Principal, Ltd SERVER
	INTERCOM			
CDC-6600	NOS	NYU	0/58	Principal, SERVER
CDC-6600	BKY	LBL	0/34	Principal, SERVER
CDC-6600	SCOPE	AFWL	0/48	Principal, Ltd SERVER
CDC-6600	NOS/BE	EGLIN	0/53	Principal, Ltd SERVER
CDC-6600	SCOPE	WPAFB	0/47	Principal, Ltd SERVER
CDC-6600s	SCOPE,	BNL	1/58	Principal, SERVER
	INTERCOM			
CDC-6600/ CYBER-175	KRONOS, NOS	NADC	3/8	Principal, USER
CDC-6700		NSWC-DL	4/8	Principal, Ltd SERVER
CDC-7600	BKY	LBL	0/34	Principal, SERVER
CDC-7600	SCOPE,	BNL	1/58	Principal, SERVER
	INTERCOM			
CDC-7600	SCOPE, INTERCOM	LONDON-VDH	1/42	Principal, Ltd SERVER

CULLER HARRISON

AP-90	SIGNAL	CHII	2/54	Speech processor
FPS-AP-120B		BBN-SPEECH-11	2/49	Speech processor
FPS-AP-120B		ISI-SPEECH11	0/22	Speech processor
FPS-AP-120B		UTAH-11	0/4	Speech processor
MP-32		CHII	2/54	Communication controller
MP-32A		CHII	2/54	Peripheral controller

COMPUTERS BY MFR

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR.	STATUS
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(Dec)

DEC 9

PDP-9		LONDON LONDON-VDH	0/42 1/42	Communication controller
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DEC 10

DEC-10	ITS	MIT-AI	2/6	Principal, SERVER
DEC-10	ITS	MIT-DMS	1/6	Principal, SERVER
DEC-10	ITS	MIT-ML	3/6	Principal, Ltd SERVER
DEC-10	TENEX	BBN-TENEX	3/49	Principal, SERVER
DEC-10	TENEX	BBN-TENEXB	0/49	Principal, SERVER
DEC-10	TENEX	BBN-TENEXE	0/5	Principal, Ltd SERVER
DEC-10	TENEX	I4-TENEX	0/15	Principal, SERVER
DEC-10	TENEX	I4B-TENEX	2/15	Principal, Ltd SERVER
DEC-10	TENEX	MOFFETT-ARC	0/45	Principal, Ltd. SERVER
DEC-10	TENEX	MOFFETT-SUBNET	1/45	Principal, Ltd. SERVER
DEC-10	TENEX	NOSC-SECURE2	0/35	Principal, Ltd. SERVER
DEC-10	TENEX	OFFICE-1	0/43	Principal, SERVER
DEC-10	TENEX	OFFICE-2	1/43	Principal, SERVER
DEC-10	TENEX	SRI-KA	0/51	Principal, SERVER
DEC-10	TENEX	USC-ECL	3/23	Principal, SERVER
DEC-10	TENEX	USC-ISI	1/22	Principal, SERVER
DEC-10	TENEX	USC-ISIB	3/52	Principal, Ltd SERVER
DEC-10	TENEX	USC-ISIC	2/22	Principal, SERVER
DEC-10	TENEX	CCA-TENEX	0/31	Principal, SERVER
DATA LANGUAGE				
DEC-10	TOPS-10	HARV-10	0/9	Principal, Ltd SERVER
DEC-10	TOPS-10	SU-AI	0/11	Principal, Ltd SERVER
DEC-10	TOPS-10	WHARTON	1/46	Principal, Ltd SERVER
DEC-1050T	TOPS-10	CMU-10B	0/14	Principal, Ltd SERVER
DEC-1050T	TOPS-10	CMU-10D	2/14	Principal, Ltd SERVER
DEC-1050T	TOPS-10	NBS-10	0/19	Principal, Ltd SERVER
DEC-1070T	TOPS-10	LLL-MFE	1/21	Principal, Ltd SERVER
DEC-1077T	TENEX	SUMEX-AIM	0/56	Principal, SERVER
DEC-1077T	TOPS-10	WPAFB-AFAL	1/47	Principal, Ltd SERVER
DEC-1080T	ITS	MIT-MC	3/44	Principal, Ltd SERVER
DEC-1080T	TOPS-10	CMU-10A	1/14	Principal, Ltd SERVER
DEC-1080T	WAITS	SU-AI	0/11	Principal, SERVER
DEC-1090T	TOPS-20AN	BBN-TENEXD	1/49	Principal, Ltd SERVER
DEC-1090T	TOPS-20AN	SRI-KL	1/2	Principal, SERVER
DEC-1090T	TOPS-20AN	USC-ISIE	1/52	Principal, SERVER

DEC 11

PDP-11		CMU-10A	1/14	Communication controller
		CMU-10B	0/14	
		CMU-10D	2/14	
		CMU-CMMP	3/14	
PDP-11	UNIX	NPS	0/33	Principal, Ltd Server
PDP-11	UNIX	NSA	0/57	Principal, Ltd Server
PDP-11s		I4-TENEX	0/15	Communication controller
PDP-11/10		SRI-VIS11	2/2	Vision research
PDP-11/10	ELF	AMES-11	3/16	I/O controller
PDP-11/10	ELF	ASL	1/48	Magtape mass data dump
PDP-11/20		MIT-AI	2/6	Peripheral processor
PDP-11/20s	HYDRA	CMU-CMMP	3/14	Multiprocessor, SERVER
PDP-11/34		SAT-VDH	3/63	Satellite gateway
PDP-11/34	ELF	BNL	1/58	Communication controller
PDP-11/34	UNIX	LBL-UNIX	1/34	Principal, Ltd. SERVER
PDP-11/34	UNIX	SU-ISL	1/56	Principal, Ltd. SERVER
PDP-11/35	ELF	LONDON-GATEWAY	3/42	Satellite gateway
PDP-11/35	UNIX	GUNTER-UNIX	0/13	Principal, Ltd. SERVER
PDP-11/35	UNIX	PENT-UNIX	3/26	Principal, Ltd. SERVER

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
PDP-11/40		ROCHESTER	1/18	Principal, USER
PDP-11/40	ANTS, ELF	BRL	0/29	Terminal concentrator
PDP-11/40	ELF	ARPA-XGP11	3/28	Peripheral processor
PDP-11/40	ELF	BBN-GATEWAY	3/40	Gateway machine
PDP-11/40	ELF	CCA-SPEECH	1/31	Speech understanding
PDP-11/40	ELF	ISI-XGP11	0/52	Peripheral processor
PDP-11/40	ELF	NADC	3/8	Communication controller
PDP-11/40	ELF	NDRE-GATEWAY	3/41	Satellite gateway
PDP-11/40	ELF	NSWC-DL	4/8	Communication controller
PDP-11/40	ELF	NYU	0/58	Communication controller
PDP-11/40	ELF	SRI-C3PO	1/51	Central controller
PDP-11/40	ELF	SRI-NSC11	3/2	Speech compression
PDP-11/40	ELF	SRI-R2D2	3/51	Central controller
PDP-11/40	ELF	SRI-TSC	0/2	Terminal concentrator
PDP-11/40	ELF, UNIX	NOSC-SDL	2/3	Principal, Ltd. SERVER
PDP-11/40	ELF, [UNIX]	NCSC	1/53	Communication controller
PDP-11/40	ELF, [UNIX]	NRL	0/8	Communication controller
PDP-11/40	ELF, [UNIX]	NUSC	3/46	Communication controller
PDP-11/40	RSX11M,	DCEC	3/20	Terminal concentrator
	RSX11D			
PDP-11/40	RT11	BBN-SPEECH-11	2/49	Speech compression
PDP-11/40	Special	BBN-INLAT	1/5	Intelligent terminal
PDP-11/40	STRUGL	CCA-SIP	3/31	Seismic input processor
PDP-11/40	UNIX	NOSC-CC	0/3	Communication controller
PDP-11/40	UNIX	NTIA-ITS	1/25	Principal, Ltd. SERVER
PDP-11/40	UNIX	RADC-XPER	1/18	Principal, Ltd. SERVER
PDP-11/40	UNIX	SRI-UNIX	2/51	Principal, Ltd. SERVER
PDP-11/40s	HYDRA	CMU-CMMR	3/14	Multiprocessor, SERVER
PDP-11/45		SU-AI	0/11	Speech processor
PDP-11/45	ANTS, ELF	UCLA-ATS	0/1	Network analysis and modeling
	UCLA-VMM, UNIX			
PDP-11/45	ELF	DTNSRDC	1/8	Communication controller
PDP-11/45	ELF	ETAC	0/59	Terminal concentrator
PDP-11/45	EPOS, DOS	ISI-SPEECH11	0/22	Speech compression
PDP-11/45	RSX11M	AMES-11	3/16	Communication controller
PDP-11/45	RSX11M	EGLIN	0/53	Communication controller
PDP-11/45	RSX11M	RADC-MULTICS	0/18	Satellite gateway
PDP-11/45	RSX11M	UTAH-11	0/4	Speech research
PDP-11/45	UNIX	LL-11	3/10	Speech compression
PDP-11/45	UNIX	LOGICON	1/35	Principal, USER
PDP-11/45	UNIX	NBS-UNIX	3/19	Gateway machine
PDP-11/45	UNIX	UCLA-SECURITY	2/1	Principal, Ltd SERVER
PDP-11/45	UNIX	UTEXAS	0/62	Principal, Ltd SERVER
PDP-11/45	UNIX, ELF	NWC	3/3	Communication controller
PDP-11/50	RSX11M	AFWL	0/48	Communication controller
PDP-11/50	RSX11M	WPAFB	0/47	Communication controller
PDP-11/50	UNIX	LL-ASG	1/44	Principal, Ltd SERVER
PDP-11/70	UNIX	BBN-UNIX	0/63	Principal, Ltd SERVER
PDP-11/70	UNIX	CCA-SDMS	2/31	Principal, Ltd SERVER
PDP-11/70	UNIX	CCTC	0/20	Communication controller
PDP-11/70	UNIX	CTO-DDS	1/17	Principal, Ltd SERVER
PDP-11/70	UNIX	DTI	1/12	Principal, Ltd SERVER
PDP-11/70	UNIX	EDN-UNIX	0/20	Principal, Ltd SERVER
PDP-11/70	UNIX	LL-XN	2/10	Principal, Ltd SERVER
PDP-11/70	UNIX	LLL-COMP	0/21	Principal, Ltd SERVER
PDP-11/70	UNIX	MITRE	0/17	Principal, Ltd SERVER
PDP-11/70	UNIX	NOSC-SECURE1	1/3	Principal, Ltd SERVER
PDP-11/70	UNIX	NOSC-SECURE3	3/35	Principal, Ltd SERVER
PDP-11/70	UNIX	NUSC-NPT	2/9	Principal, Ltd SERVER
PDP-11/70	UNIX	NPRDC-UNIX	4/3	Principal, Ltd SERVER
PDP-11/70	UNIX	RAND-UNIX	3/7	Principal, Ltd SERVER
PDP-11/70	UNIX	SDAC-UNIX	1/39	Principal, Ltd SERVER

COMPUTERS BY MFR

MANUFACTURER	COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
DEC 15					
PDP-15	DMS		ARPA-DMS	0/28	Principal, Ltd SERVER
DEC 20					
DEC-2020T	TOPS-20AN	DEC-MARLBORO	1/37	Principal, Ltd SERVER	
DEC-2040T	TOPS-20AN	NOSC-SECURE3	3/35	Principal, Ltd SERVER	
DEC-2040T	TOPS-20AN	RADC-TOPS20	3/18	Principal, Ltd SERVER	
DEC-2050T	TOPS-20AN	BBN-TENEXA	3/5	Principal, Ltd SERVER	
DEC-2050T	TOPS-20AN	MIT-XX	0/44	Principal, Ltd SERVER	
DATA GENERAL					
NOVA-800			PARC-GATEWAY	1/32	PARC Gateway machine
HONEYWELL					
G-4080	GCOS	LONDON	0/42	Principal, USER	
H-316		BBN-NCC	0/40	NCC prototype	
H-6000	GCOS	CCTC	0/20	Principal, Ltd SERVER	
H-6180	MULTICS	MIT-MULTICS	0/6	Principal, SERVER	
H-6180	MULTICS	RADC-MULTICS	0/18	Principal, Ltd SERVER	
H-68/80	MULTICS	MIT- DEVMULTICS	4/31	Principal, Ltd SERVER	
All TIPS are Honeywell H-316s. The following TIPS are on the ARPANET:					
ACCAT-TIP	2/35	AFWL-TIP	2/48	ALMSA-TIP	2/61
AMES-TIP	2/16	ARPA-TIP	2/28	BBN-PTIP	2/5
BBN-TESTIP	2/30	BRAGG-TIP	2/38	LCSR-TIP	2/46
CINCPAC-TIP	2/36	DARCOM-TIP	2/50	DCEC-TIP	2/20
DOCB-TIP	2/25	GUNTER-TIP	2/13	GWC-TIP	2/24
LONDON-TIP	2/42	MIT-TIP	2/44	MITRE-TIP	2/17
NBS-TIP	2/19	NCC-TIP	2/40	NORSAR-TIP	2/41
NPS-TIP	2/33	PENTAGON-TIP	2/26	RADC-TIP	2/18
RAND-TIP	2/7	SU-TIP	2/11	USC-TIP	2/23
UTAH-TIP	2/4	WPAFB-TIP	2/47		
IBM					
3033s		ANL	0/55	Principal, SERVER	
IBM 360					
360/40	DOS	NORSAR-40A	0/41	Principal, USER	
360/40	DOS/360	SDAC-NEP	2/39	Principal, USER	
360/44	PS/44	SDAC-44	3/39	Principal, Ltd SERVER	
360/67	TSS/360	AMES-67	0/16	Principal, SERVER	
360/75		ANL	0/55	Principal, SERVER	
360/91	OS-MVT, TSO	UCLA-CCN	1/1	Principal, SERVER	
360/195	OS-MVT, HASP	LONDON	0/42	Principal, SERVER	

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
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IBM 370

370/158	OS-VS2-MVS JES2, WYLBUR	RAND-RCC	0/7	Principal, SERVER
370/168	VM/370	LL	0/10	Principal, Ltd SERVER
370/195	OS-MVT, ASP	ANL	0/55	Principal, SERVER

SPS

SPS-41	EPOS	BBN-SPEECH-11	2/49	Speech Processor
SPS-41	DOS	SRI-NSC11	3/2	Speech Processor
SPS-41	DOS	SU-AI	0/11	Speech Processor

UNIVAC

1110		NOSC-CC	0/3	Principal, Ltd SERVER
1110		NWC	3/3	Principal, Ltd SERVER
1108		NUSC	3/46	Principal, USER

VARIAN

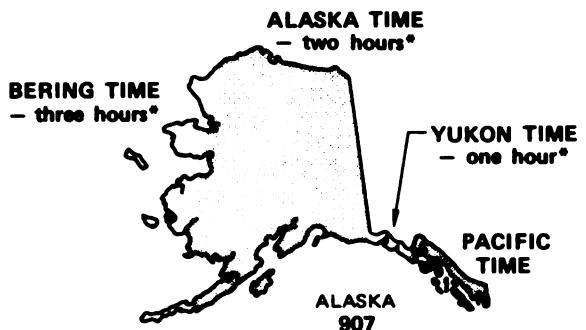
73		ANL	0/55	Communication controller
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XEROX

MAXC MAXC2	TENEX	PARC-MAXC PARC-MAXC2	0/32 2/32	Principal, Ltd SERVER Principal, Ltd SERVER
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OTHER

ICL-4/72		LONDON-VDH	1/42	Principal, Ltd. SERVER
NORD-10	SINTRAN-3	NDRE	1/41	Principal, USER
STARAN-1000P		RADC-MULTICS	0/18	Satellite gateway
TI-ASC	GPOS	NRL	0/8	



U.S. TIME ZONES AND AREA CODES

PACIFIC TIME

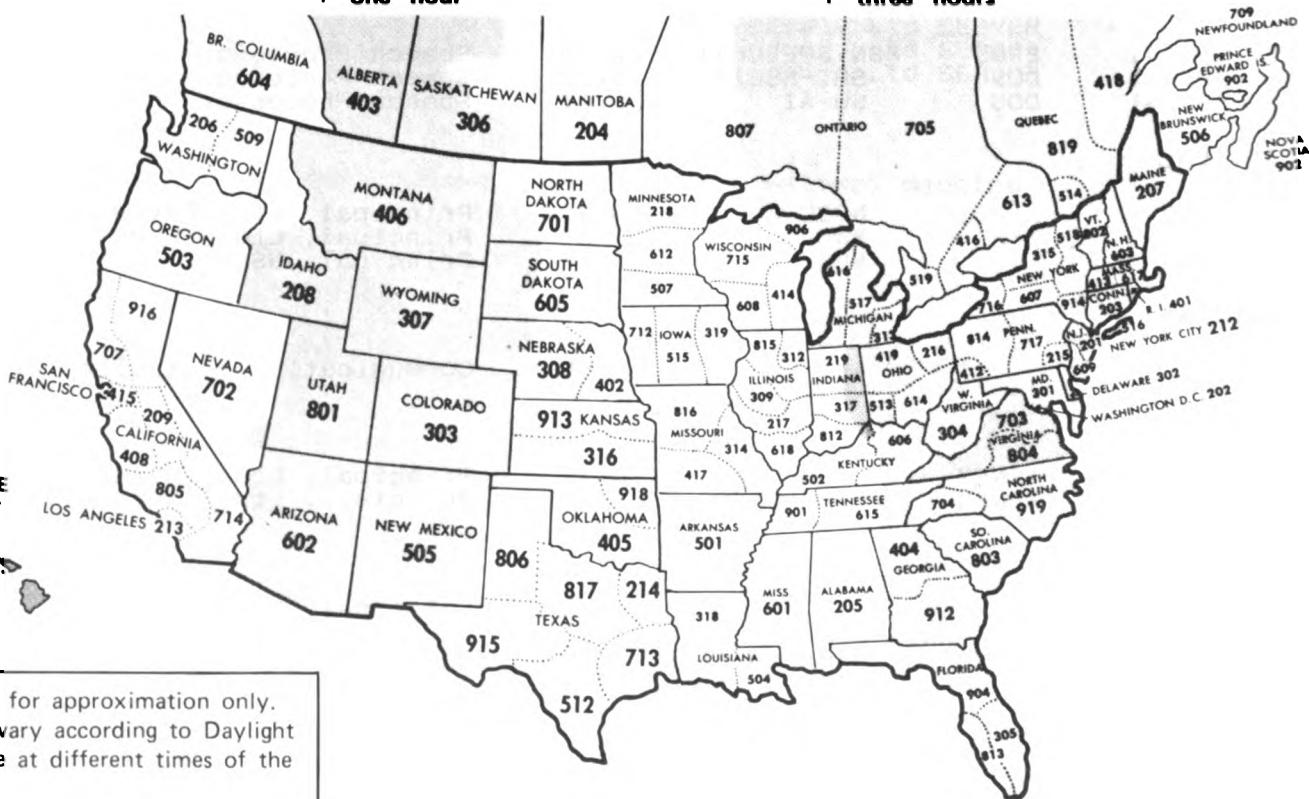
MOUNTAIN TIME
+ one hour*

CENTRAL TIME
+ two hours*

EASTERN TIME
± three hours*

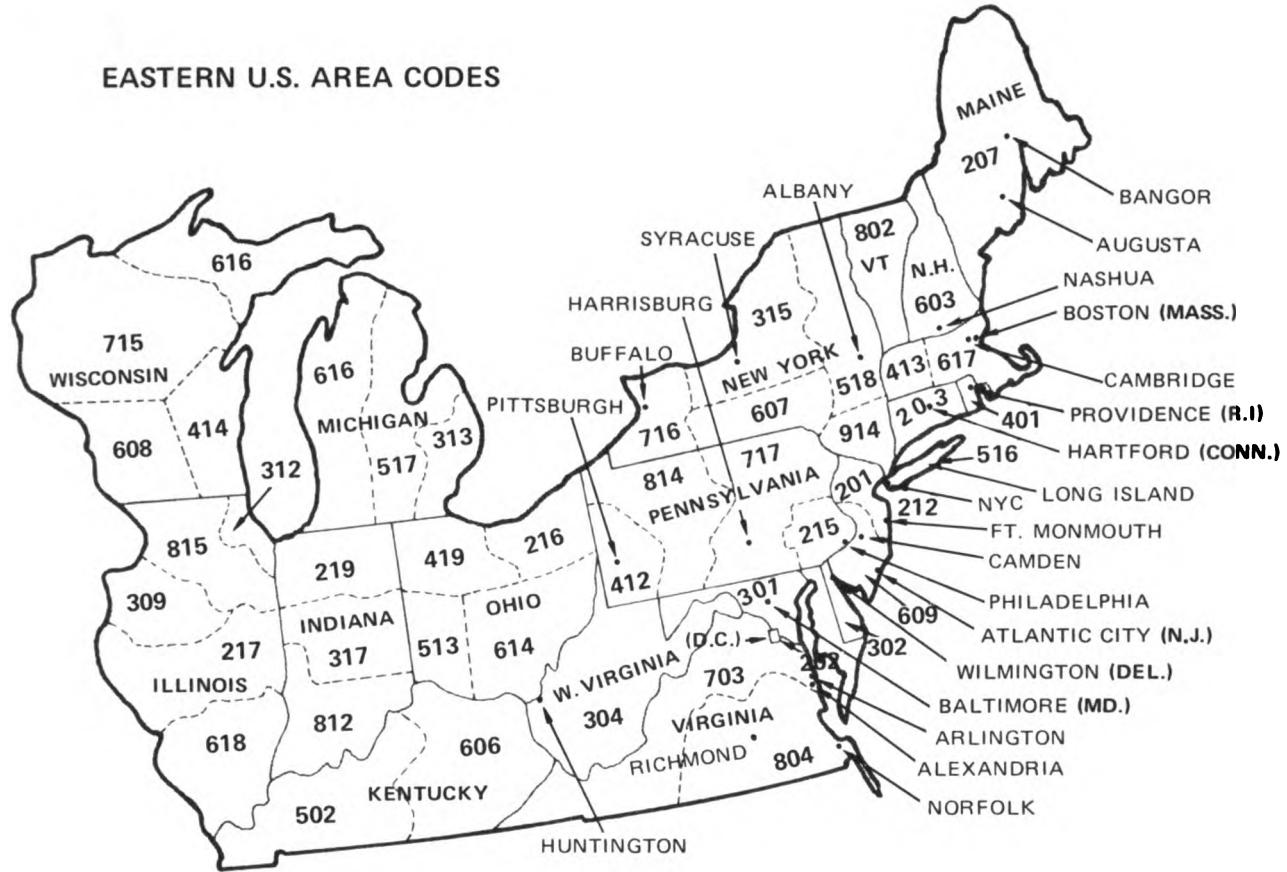
ATLANTIC TIME
+ four hours*

HAWAII TIME
— two hours*



*Time zones for approximation only.
Hours will vary according to Daylight
Saving Time at different times of the
year.

EASTERN U.S. AREA CODES



STANDARD STATE ABBREVIATIONS

AL	Alabama	KY	Kentucky	ND	North Dakota
AK	Alaska	LA	Louisiana	OH	Ohio
AZ	Arizona	ME	Maine	OK	Oklahoma
AR	Arkansas	MD	Maryland	OR	Oregon
CA	California	MA	Massachusetts	PA	Pennsylvania
CO	Colorado	MI	Michigan	RI	Rhode Island
CT	Connecticut	MN	Minnesota	SC	South Carolina
DE	Delaware	MS	Mississippi	SD	South Dakota
DC	District of Columbia	MO	Missouri	TN	Tennessee
FL	Florida	MT	Montana	TX	Texas
GA	Georgia	NE	Nebraska	UT	Utah
HI	Hawaii	NV	Nevada	VT	Vermont
ID	Idaho	NH	New Hampshire	VA	Virginia
IL	Illinois	NJ	New Jersey	WA	Washington
IN	Indiana	NM	New Mexico	WV	West Virginia
IA	Iowa	NY	New York	WI	Wisconsin
KS	Kansas	NC	North Carolina	WY	Wyoming

ARPANET GEOGRAPHIC MAP, NOVEMBER 1978



REFERENCE

FREQUENTLY CALLED NUMBERS

Name

Phone

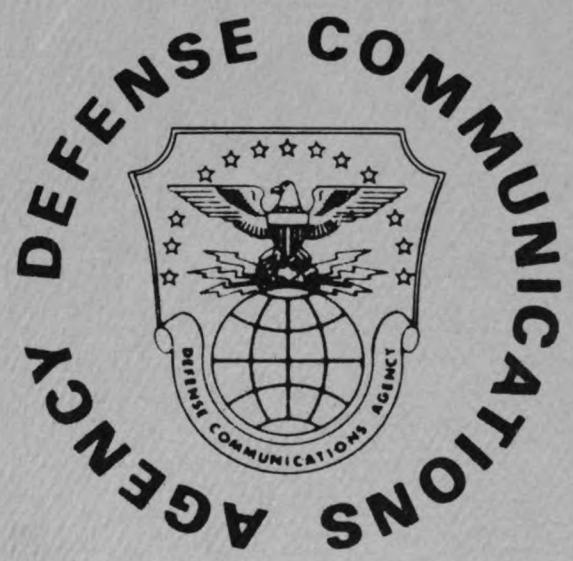
Name

Phone

U393.5
A17

NIC 47000

ARPANET DIRECTORY



DECEMBER 1979

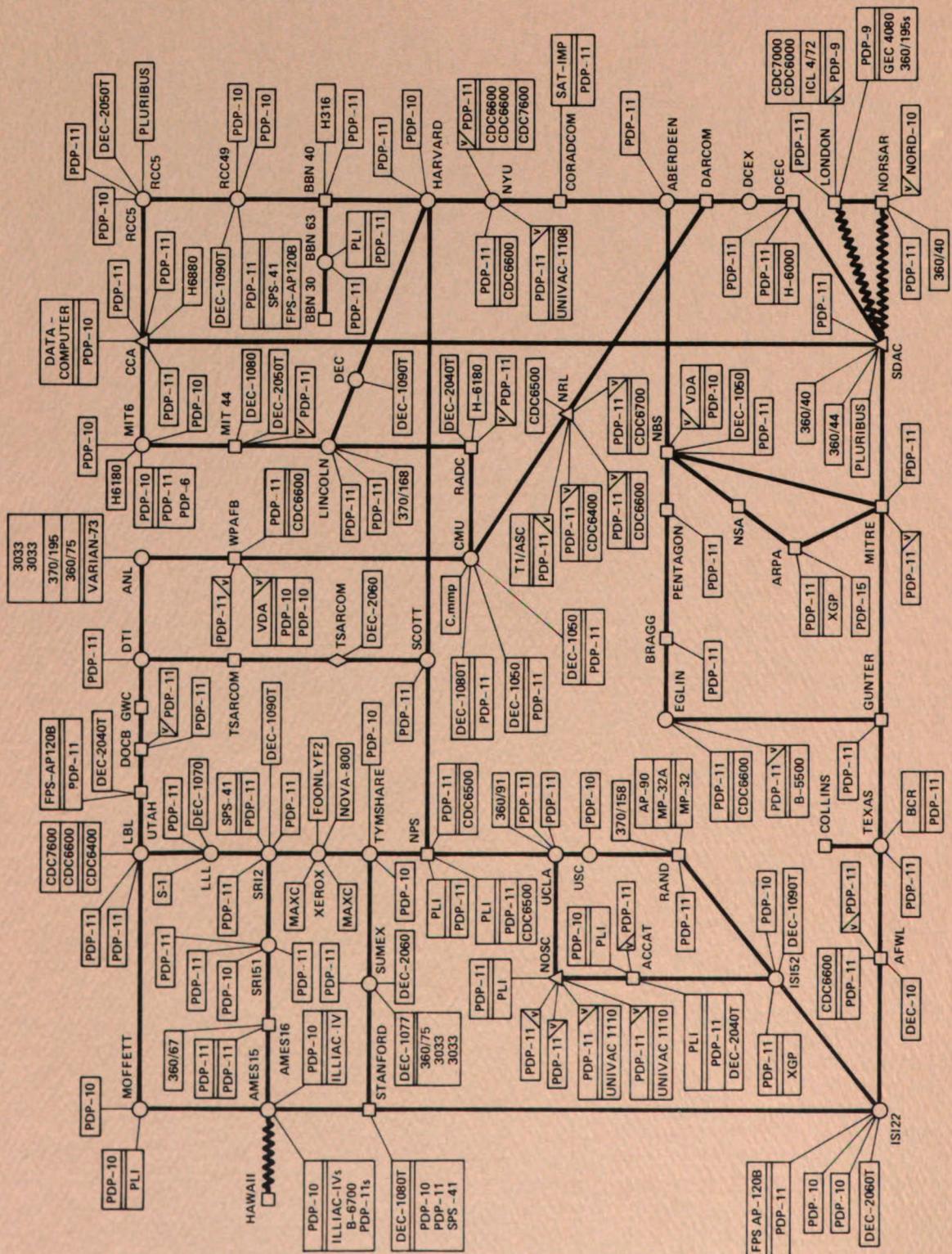
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OCT 1991
STACKS LIBRARY

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On Contract No. DCA 200-C-641

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SRI International
Menlo Park, California 94025

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ARPA NET LOGICAL MAP, JUNE 1979



PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY

HOST COMPUTER CONFIGURATION SUPPLIED BY THE NETWORK INFORMATION CENTER

NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

ARPANET DIRECTORY

CONTENTS

Logical Map	Inside Front Cover
Table of Contents	i
Calendars - 1776 to 2000	ii
Introduction	1
NIC Information.....	3
ARPANET Information	7
General Contacts	19
Network Sponsors	21
Network Liaison.....	23
Individuals	27
Network Addresses Index	229
Host Acronyms	267
Associate Acronyms.....	273
Hosts and Associates	279
Host Number/IMP Number Table	291
Computers by Host Configuration	295
Computers by Manufacturer	305
U.S. Time Zones and Area Codes	311
Eastern U.S. Area Codes	312
International Time Zones	313
Geographic MapInside Back Cover

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CALENDARS - 1776 TO 2000

INDEX

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																																																						
1776.. 9	1801.. 5	1826.. 1	1851.. 4	1876.. 14	1901.. 3	1926.. 6	1951.. 2	1976.. 12	1902.. 4	1927.. 12	1952.. 10	1977.. 7	1903.. 5	1928.. 8	1953.. 5	1978.. 1	1904.. 6	1929.. 13	1954.. 6	1979.. 2	1905.. 3	1930.. 6	1955.. 7	1980.. 10	1906.. 2	1931.. 7	1956.. 8	1981.. 5	1907.. 3	1932.. 13	1957.. 3	1982.. 6	1908.. 4	1933.. 8	1958.. 4	1983.. 7	1909.. 6	1934.. 10	1959.. 5	1984.. 8	1910.. 7	1935.. 13	1960.. 13	1985.. 3	1911.. 1	1834.. 3	1835.. 13	1861.. 1	1886.. 6	1912.. 9	1937.. 6	1962.. 2	1987.. 5	1913.. 6	1862.. 4	1883.. 8	1914.. 4	1938.. 3	1963.. 3	1988.. 13	1914.. 5	1864.. 13	1889.. 3	1915.. 6	1940.. 9	1965.. 6	1990.. 2	1915.. 6	1840.. 11	1865.. 1	1909.. 4	1916.. 1	1936.. 1	1966.. 4	1916.. 14	1941.. 4	1966.. 7	1991.. 3	1917.. 2	1942.. 1	1967.. 1	1992.. 11	1918.. 3	1943.. 11	1968.. 9	1993.. 6	1919.. 4	1944.. 14	1969.. 4	1994.. 7	1920.. 12	1945.. 2	1970.. 7	1995.. 1	1921.. 7	1946.. 3	1971.. 6	1996.. 9	1922.. 1	1947.. 4	1972.. 14	1997.. 4	1923.. 7	1948.. 12	1973.. 12	1998.. 5	1924.. 10	1949.. 5	1974.. 20	1999.. 6	1925.. 31	1875.. 6	1900.. 21	1925.. 51	1950.. 1	1975.. 41	2000.. 14

DIRECTIONS FOR USE

Look for the year you want in the index at left. The number opposite each year is the number of the calendar to use for that year.

1

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BRIEF EXPLANATION OF THIS DIRECTORY

ATTENTION

The ARPANET Directory is the property of the Department of Defense. It is to be used solely for the conduct of, or in support of, official U.S. government business. The use of this book or its data base for advertising, mail distribution lists, or for any other unauthorized purpose is strictly prohibited. Any individuals or hosts who violate this prohibition will have their listings deleted from both this directory and the online system directory.

NIC INFORMATION

Services and documents available from the Network Information Center (NIC) are described in this section of the Directory.

ARPANET INFORMATION

General information, useful definitions, policies, and procedures for using the ARPANET are included in this section.

CONTACTS

Lists general network contacts, as well as the ARPANET Sponsors and the ARPANET Liaison.

INDIVIDUALS

Individuals who are authorized ARPANET users and who have supplied the proper information to the ARPANET Network Information Center are listed alphabetically by last name in the INDIVIDUALS section of the directory. The format is:

INDIVIDUAL'S NAME	NIC IDENT	NETWORK-MAIL-ADDRESS
HARDCOPY-MAIL-ADDRESS		PHONE NUMBER
		HOST NAME or ORGANIZATION IDENT

where

NIC IDENT = a unique code (usually one's initials) by which the NIC Identification System recognizes and locates an individual.

NETWORK-MAIL-ADDRESS is in the form: USER-NAME@HOST-NAME. The HOST NAME portion identifies a computer (host) attached to the ARPANET at which the individual receives delivery of his network mail. The USER NAME portion of the network mail address is the character sequence by which that host identifies the user's incoming mail.

HOST NAME or ORGANIZATION IDENT = the official identification code for the host with which an individual is associated; or if no ARPANET host exists, an identification code representing the organization with which the individual is associated.

INTRODUCTION

NETWORK MAILBOX INDEX

This index is organized alphabetically by network mailbox along with the corresponding individual's name. It is a subset of the INDIVIDUALS listing and indicates what individuals are associated with which mailboxes.

HOSTS AND ASSOCIATES

Hosts are computers connected to the ARPANET. There are three kinds of hosts: SERVERs, USERs and TIPs. SERVERs have implemented SERVER TELNET and are capable of providing services to remote users across the network. USERs let individuals access resources elsewhere on the network, but do not provide services of their own and have not implemented SERVER TELNET. TIPs are special-case interface message processors (IMPs) which have one port dedicated to terminal connections. Associates are network-related organizations that do not have hosts connected to the ARPANET. Hosts and associates are listed alphabetically by organization name in the format:

ORGANIZATION NAME	OFFICIAL HOST NAME or ORGANIZATION ACRONYM
ORGANIZATION ADDRESS	

and by host acronym in the format:

OFFICIAL HOST NAME	ORGANIZATION NAME
	ORGANIZATION ADDRESS

or by associate acronym in the format:

ASSOCIATE ACRONYM	ORGANIZATION NAME
	ORGANIZATION ADDRESS

where

OFFICIAL HOST NAME = a unique acronym, obtained through negotiation with the NIC, by which a host is known on the ARPANET.

ASSOCIATE IDENT = an identification acronym for associate organizations, assigned by the NIC or the sponsoring organization.

HOST NUMBER/IMP NUMBER ASSIGNMENTS

The Host No./IMP No. Table specifies which hosts are attached to each IMP or TIP.

COMPUTERS

The Computer Tables list network hosts organized by computer configuration and by computer manufacturer.

NETWORK INFORMATION CENTER SERVICES

WHAT THE NETWORK INFORMATION CENTER (NIC) DOES

The NIC serves as a center for collection and dissemination of information about the ARPANET. It is located at SRI International in Menlo Park, California. The NIC was begun in 1970 as a research project to develop a prototypical network information center, and up until July 1, 1975 was sponsored by the Defense Advanced Research Projects Agency (DARPA). Currently it is funded by the Defense Communications Agency (DCA) to provide the services outlined below.

PUBLICATIONS

The Network Information Center publishes the following documents:

The ARPANET Directory - A directory of users and hosts on the ARPANET. It gives the names, online and offline mail addresses, phone number, and host affiliation of ARPANET users, as well as summary tables of host information.

The ARPANET Protocol Handbook - A collection of the currently accepted ARPANET network protocols.

The ARPANET Resource Handbook - a compendium of the resources available on the ARPANET.

The NSW Resouce Handbook - A compendium of contacts and resources available for use via the National Software Works project.

NICNOTES - Informal newsnotes distributed online by the NIC to the Liaison and other interested people. NICNOTES are primarily concerned with announcement of changes of host names and host addresses on the ARPANET.

ONLINE REFERENCE FILES

THE OFFICIAL ARPANET HOST NAMES LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>HOSTS.TXT

This file contains the official list of host names and host addresses for hosts attached to the ARPANET. It consists of host name, host address, type of host (i.e., USER, SERVER, or TIP) and host nickname, if any. It is accessible to any network user for reference, and is mainly used to update local host name recognition tables. The reference file meets criteria outlined in RFC 608 which requires that host address be cited as decimal numbers.

An additional ASCII sequential file
<NETINFO>NHOSTS.TXT

is also available from SRI-KL. This file is the same as <NETINFO>HOSTS.TXT except that it contains host addresses in the HOST #/IMP # format, and includes addresses for hosts on IMPs numbered higher than 63, and hosts on ports numbered greater than 3.

NIC INFORMATION

THE OFFICIAL ARPANET LIAISON LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON.TXT

This file contains name, U. S. mail address, network mail address, phone, and host affiliation for each network Liaison.

THE LIAISON NETWORK MAIL DISTRIBUTION LIST

An ASCII sequential file available from SRI-KL (66 dec) as
<NETINFO>LIAISON-SNDMSG.TXT

This file contains network mail addresses for all Network Liaison formatted for online group distribution of messages via most mail programs.

REQUEST FOR COMMENTS (RFCS)

Current Network Working Group (NWG) papers, known as RFCs, are kept online in the directory <NETINFO> at SRI-KL (66 dec). These are maintained by the Coordinator of the NWG, currently Jon Postel, and are announced via an online distribution list. Each RFC remains online for at least 21 days to give users a chance to obtain copies. Individuals wishing to be added to the RFC notification list should contact Jon Postel (POSTEL@ISIB).

NIC/QUERY

Most of the information contained in the ARPANET Resource Handbook is maintained online in the directory <NETINFO> at SRI-KL. This information may be viewed through the NIC/QUERY program. The query program is geared toward novice or casual users and is available to all. (See ACCESS TO NIC ONLINE FILES below.)

WHOIS

The NIC has implemented an experimental ARPANET server, called WHOIS, that makes fast query/response transactions over the network to provide identification of network users (name, U.S. mail address, network mailbox, phone, and host affiliation).

To access WHOIS, type

whois LASTNAME <SP><CR>

after logging into a host on which the user program resides (see below).
Type

whois ? <CR>

to get help.

As of November 1979 the WHOIS program was running on USC-ISI, USC-ISIB, USC-ISIE, RADC-TOPS20, SRI-KL, SRI-KA, OFFICE-1, OFFICE-2, and OFFICE-3. It will be running on more ARPANET computers soon. Contact FEINLER@SRI-KL for information.

ACCESS TO NIC ONLINE FILES

Connect to SRI-KL (66 dec) and type:

[@] nic <CR>

where

@ = the SRI-KL TENEX herald
<CR> = a carriage return typed by the user

then follow the instructions that are printed out.

NOTE: Users may use this account for viewing reference files in the NIC/Query system, but they may not use it to access other programs. It cannot be used for linking or loading the FTP program.

HARDCOPY DOCUMENT DISTRIBUTION

The NIC maintains files of many hardcopy documents pertaining to the ARPANET. Although the NIC (since 9/74) does not officially distribute hardcopy documents to network users, it will attempt to honor Interlibrary Loan requests for items in the NIC collection that are not available in the open literature. This service is provided to the extent that funds and staff permit and is not guaranteed.

ARPANET GENERAL INFORMATION

USEFUL DEFINITIONS

INTERFACE MESSAGE PROCESSOR (IMP)

A store and forward packet switch which can accomodate up to four host computers. The original IMPs and TIPs were Honeywell 316 and 516 machines. NOTE: There will not be any additional 316 or 516 IMPs added to the network as Honeywell has stopped manufacturing them.

TERMINAL INTERFACE PROCESSOR (TIP)

A store and forward packet switch which can accomodate up to three host computers and 63 terminals. Each terminal may be either asynchronous or externally clocked, and may operate at speeds up to 2400 baud on input and 19.2 kilobaud on output. Some types of intelligent terminals are also supported.

PLURIBUS INTERFACE MESSAGE PROCESSOR

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 18 host computers, depending upon configuration. This type IMP, produced by Bolt Beranek and Newman, Inc. (BBN), has higher throughput capacity and can be configured redundantly for improved reliability.

PLURIBUS TERMINAL INTERFACE PROCESSOR (PTIP)

A store and forward packet switch produced by BBN and based on multiprocessor technology. It can accomodate in excess of 12 hosts simultaneously with several hundred terminals. Other characteristics are similar to the Honeywell TIPs.

HOST

A customer-owned computer which is connected to a host port on an IMP or TIP. Hosts may be categorized in two ways:

DISTANT Host - A host which is more than 30 feet, but less than 2,000 feet, from an IMP or TIP.

LOCAL Host - A host located within 30 feet of an IMP or TIP.

VERY DISTANT Host - A host which is located over 2,000 feet from an IMP or TIP and requires modems on its access line.

or

SERVER Host - A host that has implemented SERVER TELNET and is capable of providing computer access to distant users via the network.

ARPANET INFORMATION

USER Host - A host that is not capable of providing computer access across the network, but whose members may use the network to access SERVER Hosts. NOTE: The port taken up by the terminal access on a TIP is considered a special case User, although technically no computer is attached to the TIP port.

TERMINAL

A teletypewriter, CRT, or similar unit which is connected to a terminal port of a TIP.

INTERSWITCH TRUNKS

A circuit between packet switches (e.g., IMPs and TIPs) which is used to pass packets through the network.

ACCESS LINE

A circuit from a host computer or terminal to an IMP or TIP. The circuit may be a local cable or a transmission facility requiring modems.

ARPANET BACKBONE

The switching nodes (e.g., IMPs and TIPs), interfaces, the communication lines interconnecting the nodes, and the Network Control Center (NCC). The backbone is also known as the communications subnet.

SPONSOR

A MILDEP, DoD Agency, or other U. S. Government Agency which is responsible for an ARPANET user(s) and reimburses DCA for the ARPANET backbone costs. The Agency is authorized to sponsor a contractor or other nongovernment activity for access to the ARPANET for the purpose of conducting official U. S. Government business. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.)

NODE

The packet switch; an IMP/TIP or Pluribus IMP/TIP.

WHAT THE ARPANET IS

The ARPANET is an operational, resource sharing, host-to-host network linking a wide variety of computers at research centers sponsored by Defense Advanced Research Projects Agency (DARPA) and other DoD and non-DoD activities in continental United States, Hawaii, Norway, and England.

The ARPANET originated as a purely experimental network in late 1969 under a research and development program sponsored by DARPA to advance the state-of-the-art in computer internetworking. The network was designed to provide efficient communications between heterogeneous computers so that hardware, software, and data resources could be conveniently and economically shared by a wide community of users. As the network successfully attained its initial design goals, additional users were authorized access to the network. Today, the ARPANET provides support for a large number of DoD and non-DoD government projects with an operational network of many nodes and host computers.

Following the successful accomplishment of initial ARPANET design goals and the expansion of the network, it was considered appropriate to transfer the responsibility for operation of the ARPANET from DARPA to the Defense Communications Agency (DCA). In July 1975, the DCA became the operational manager of the ARPANET.

BRIEF DESCRIPTION OF THE ARPANET

The ARPANET is an operational, computerized, packet switching DoD digital network which provides a capability for terminals or geographically separated computers, called hosts, to communicate with each other. The host computers often differ from one another in type, speed, word length, operating system, and other characteristics. Each terminal or host computer is connected into the network through a small local node computer called an IMP or TIP. The complete network is formed by interconnecting the IMPs through wideband communication lines (normally 50,000 bits per second) supplied by common carriers.

Each node is programmed to receive and forward messages to the neighboring nodes in the network. During a typical operation, a host passes a message to its node; the message is passed from node to node through the network until it finally arrives at the destination IMP, which in turn passes it along to the destination host. This process normally takes less than 250 milliseconds.

Hosts communicate with each other via regular messages. A regular message may vary in length from 96 to 8159 bits, the first 96 of which are control bits called the leader. The leader is also used for sending control messages between the host and its IMP or TIP (node). The remainder of the message is the data or text.

For each regular message, the host specifies a destination, consisting of node, host, and handling type. These three parameters uniquely specify a connection between source and destination hosts. The handling type gives the connection specific characteristics, such as priority or non-priority transmission. Additional leader space has been reserved for a fourth parameter, to be used in future internetwork addressing. For each connection, messages are delivered to the destination in the same order that they were transmitted by the source.

For each regular message, the host also specifies a 12-bit identifier, the message-ID. The message-ID, together with the destination of the message, is used as the "name" of the message. The node uses this name to inform the host of the disposition of the message. Therefore, if the host refrains from re-using a particular message-ID value (to a given destination) until the node has responded about that message-ID, messages will remain uniquely identified and the host can retransmit them in the event of a failure within the network.

ARPANET INFORMATION

After receiving a regular message from a host connected to it, a node breaks the message into several packets (currently the maximum data bits per packet is 1008) and passes these through the network in the direction of the destination. Eventually, when all packets arrive at the destination, they are reassembled to form the original message which is passed to the destination host. The destination node returns a positive acknowledgment for receipt of the message to the source host. This acknowledgment is called a Ready for Next Message (RFNM) and identifies the message being acknowledged by name. In some relatively rare cases, however, the message may not be delivered due to a node failure; line disruption, etc., in such cases an Incomplete Transmission message will be returned to the source host instead of a RFNM. In this case the message which was incompletely transmitted is also identified by name.

If a response from the destination node (either RFNM or Incomplete Transmission) is not delivered to the originating host, this condition will be detected by the source node, which will automatically inquire of the destination node whether the original message was correctly received and repeat the inquiry until a response is received from the destination node. This inquiry mechanism is timeout-driven, and each timeout period may vary between 30 and 45 seconds in length.

When a message arrives at its destination node, the leader is modified to indicate the source host, but the message-ID field is passed through unchanged. Thus, in addition to providing message identification between a host and its local node, the message-ID can provide a means for hosts to identify messages between themselves.

Users of the ARPANET may access local or distant SERVER computers (hosts) over the network. They may also exchange messages, create realtime links between users, transfer files from one computer to another, and submit batch jobs to distant computers. For a more complete description of these processes, see the ARPANET Protocol Handbook available from the NIC or the National Technical Information System (NTIS), Springfield, Va. 22161 as AD A052594.

MANAGEMENT OF THE ARPANET

The Director, DCA controls system engineering and exercises operational direction over those operating elements of ARPANET which are part of the backbone. ARPANET user equipment and terminals are non-backbone. ARPANET users must be responsive to management instructions issued by the DCA regarding the ARPANET.

The Director, DCA, will monitor the effectiveness of the ARPANET on a continuing basis, evaluate those matters which have major impact or will impact adversely on the network, and direct action to alleviate or prevent such impact.

ARPANET responsibilities of DCA are

- . To set policies, procedures, and standards for the operation and maintenance of the ARPANET.
- . To approve new user access
- . To lease the backbone and terminal access circuits
- . To maintain the backbone hardware

- . To approve changes in the network
- . To set access criteria
- . To plan, program, and budget for the resources
- . To protect government assets
- . To provide configuration control
- . To coordinate activities impacting the network
- . To act as Chairman of the Network Sponsors Group
- . To evaluate the performance of the network
- . To carry out topology studies
- . To support the Network Information Center (NIC)
- . To collect performance statistics

ARPANET POLICIES

ARPANET policies are outlined in the ARPANET Information Brochure available from the ARPANET Management Branch, Code 535, Washington, D. C. 20305 or from NTIS as AD A052672.

ARPANET SOFTWARE MODIFICATIONS

There are two general procedures for software modifications: 1) patches to correct deficiencies (bugs) in the operating program, 2) changes which are identified and approved for implementation. The software for the IMPs and TIPs is programmed in assembly language for maximum operating efficiency and use of available software. Software changes are tested and debugged at BBN prior to release. The software change releases are scheduled for testing and implementation on Tuesdays between 0700 and 0900 Boston time.

To insure that users are fully aware of major software changes which may affect their operations, changes will be processed in the following manner:

- . A specification will be developed for each approved program change proposal.
- . For those program changes viewed as having potential impact on the users, the specifications will be coordinated with the user prior to coding.
- . Subsequently, a Software Release Notice (SRN) will be distributed to all users as far in advance as possible but not less than 30 days prior to implementation (emergency changes excepted). The SRN will provide the data required to users to adjust to the system change being implemented.

ARPANET INFORMATION

THE NETWORK CONTROL CENTER (NCC)

The Network Control Center (NCC) for the ARPANET is primarily concerned with the reliability of the network, particularly the detection of line failures and IMP or TIP failures. In addition, the NCC monitors volumes of host traffic and line traffic which can give advance warning of network elements whose capacity may need to be increased and which can also be used for site usage accounting. The NCC maintains other data, such as sense switches, auto restart, memory protect settings, etc., and buffer usage for each IMP/TIP. This data is helpful in diagnosing IMP/TIP failures. Due to the constant monitoring of the ARPANET at the NCC, the operational availability of the network is very high (consistently in excess of 99%).

The NCC is located in Cambridge, Massachusetts and is operated by Bolt, Beranek, and Newman, Inc. under contract to the Defense Communications Agency. (See also CONTACTS section.)

THE ARPANET SPONSORS GROUP

The ARPANET Sponsors Group is made up of representatives from the various DoD or U. S. Government Agencies that support the ARPANET. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.) The group considers and makes recommendations to DCA on operational activities and services available on the ARPANET. It also serves as a forum for the exchange of ideas and information on the operation of the ARPANET and of future networks of common interest.

The Sponsors Group normally meets semiannually. Special meetings may be called by the Chairman, if the situation warrants it, prior to the next regularly scheduled meeting. Meetings normally are held in the Washington, D. C. area, but may be held at other locations.

Responsibilities of an ARPANET Sponsor are

- . To process all IMP/TIP and associated hardware requirements through Mildep or agency channels to DCA Code 535 for procurement.
- . To process via DCA Code 535 all requests for access lines, host interfaces, circuit rearrangements, and equipment moves.
- . To review for Approval/Disapproval requests for connection by other sponsors or government agencies, of hosts/terminals to IMPs/TIPs under his control.
- . To insure that all hosts have access control procedures and standards to prevent unauthorized use. Periodically having host accounts reviewed for removal of unauthorized users.
- . To insure that TIP liaisons change TIP Dial-In-Modem numbers as scheduled by DCA Code 535.
- . To see that the Network Liaison promptly report host/terminal connection changes as they occur to the NIC and the NCC.

- . To inform their nodes of ARPANET policies as published in the Sponsors Group Minutes and DCA correspondence.
- . To inform DCA Code 535 of any significant continuing network problems, and file Unsatisfactory Service Reports (USRs) to DCA Code 535 with copies to BBN as necessary.
- . To attend the semiannual ARPANET Sponsors Group Meetings to present problems, define user needs, make recommendations for change in policy, and discuss related network matters.
- . To validate requirements for distribution of ARPANET documentation.

THE ARPANET TECHNICAL LIAISON GROUP

The ARPANET Technical Liaison act as advisors to network users, the Network Information Center, the Network Control Center, and the Defense Communications Agency on technical matters relating to the ARPANET. The Liaison are the chief source of information about individual ARPANET hosts. They often contribute to the design of network protocols and related software and make suggestions for needed changes and improvements through memos, RFCs (network technical notes), and participation in network working groups. The work they do is on a volunteer basis, and they are in themselves a valuable network resource.

The Liaison are traditionally individuals trained in computer science or a related field, and are familiar with the resources available at the host they represent. Each host on the network has no more than one Technical Liaison; however, the same person may serve as liaison for more than one host. The Technical Liaison are coordinated by the Manager of the Network Information Center, currently E. Feinler (FEINLER@SRI-KL).

For a list of the names, network mailboxes, and host affiliations of the ARPANET Technical Liaison, see the NETWORK LIAISON section.

Responsibilities of an ARPANET Liaison are

- . Help monitor the ARPANET from unauthorized use. Permission to attach hosts or other equipment to the ARPANET can only be granted by a sponsoring agency. The Liaison should refer all requests for such attachments to DCA. Permission to use existing host resources can only be granted by authorized host administrators to users with valid accounts. The Liaison should refer all requests for such access to the proper administrators. If it is possible to gain access to the ARPANET from a tributary terminal off a host via the IMP-HOST connection, it is the responsibility of that host to prevent illegal use. Distribution of TIP dial-in numbers is entrusted to the TIP Liaison. Evidence of unauthorized use of these numbers should be reported to DCA.

ARPANET INFORMATION

- . Upon completion of new host or terminal hardware installation and prior to the new user passing traffic, contact DCA Code 535 via telephone or ARPANET for final validation. DCA will then instruct BBN to set host/terminal parameters to accept traffic. The Liaison should also provide the NIC via telephone or ARPANET with his or her full name, address, phone number, and network mailbox (if this has not already been done), as well as the host name, host address, operating system, and computer configuration for any new hosts.
- . Help coordinate equipment moves or installations, or circuit moves or installations affecting the ARPANET backbone or the IMPs and/or TIPs. The Liaison will be sent info copies of Telecommunications Service Requests (TSRs) from DCA, informing them of any changes in backbone circuitry, terminal and/or host additions/deletions. They should help coordinate access to the IMP or TIP by TEL CO or BBN to perform actions called for in the TSRs. Unless a TSR has been received authorizing equipment moves/installations or circuit moves/additions, no such moves or installations should be made without contacting DCA Code 535 for authorization. (Normal maintenance actions are excluded.)
- . If a TIP Liaison, forward to DCA Code 535 a quarterly TIP inventory. The format for this report is available from DCACODE535@ISI. The inventory is due by the 15th of January, April, July, and October of each year. (RCS #DCA(Q)530-49). Transmission via ARPANET is acceptable.
- . In the first five working days of each month the NIC will provide via the ARPANET a table of ARPANET Host Names, Liaison, and Sponsors. Liaison should review entries on this list pertaining to their TIPs or Hosts for accuracy and provide any changes as soon as possible to the NIC. They should also update their host recognition tables.
- . Provide the NIC with a description of equipment, software, people, and interests pertaining to their designated hosts in accordance with the formats outlined by the NIC.
- . Provide the NIC with updated personnel information for the ARPANET Directory and online Identification Data Base and WHOIS server.
- . Keep local users informed about procedures and happenings related to the ARPANET. The Liaison will be the recipient of official messages sent out about the ARPANET. These messages should be 'posted' and/or passed on to local users, administrators, or other interested personnel.
- . Serve as local contact for their host(s). If an ARPANET user does not know how to locate a particular resource, or how to handle a problem at the host level, and does not know whom to contact, he can ask the Network Liaison at the host he is trying to use to assist him. The Liaison can either help the user directly or refer him to the proper contact.
- . Inform the NCC and DCA of network backbone problems and network software bugs, and generate Unsatisfactory Service Reports as necessary. See that ARPANET protocols are implemented properly at the host level. (This activity may be designated to someone other than the Liaison. However, the Liaison is expected to be the contact for protocol information distributed to the hosts and to see that the right person receives it.)

WHO MAY BE A SUBSCRIBER ON THE ARPANET

DOD USERS

Subject to the availability of assets, DoD activities will be connected to the ARPANET provided the requests are processed through normal communications validating channels.

NON-DOD U.S. GOVERNMENT ACTIVITIES

Requests for ARPANET service from non-DoD U.S. Government activities will be considered by DCA on a case-by-case basis.

NON-GOVERNMENT U. S. ACTIVITIES

A DoD or other U. S. Government activity authorized to use the network may sponsor, as a user, a non-government activity performing contract work for the U. S. Government. Justification outlining benefits to the U. S. Government for such access shall be provided to DCA by the sponsoring activity. Cost for network services provided to non-government activities will be allocated to the sponsoring activity.

NON-U. S. ACTIVITIES

Non-U. S. activities will not be directly connected to the ARPANET. Access to the ARPANET may be provided through the facilities of an authorized user if coordinated with DCA.

INFORMATION ON PROCEDURES TO BECOME A SUBSCRIBER

U. S. Government activities requesting ARPANET service must apply to the Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 535, Washington, D. C. 20305. Detailed procedures are contained in the ARPANET Information Brochure, which is available from DCA Code 535 or from NTIS as AD A052672.

Criteria and standards for interface to the ARPANET are specified in the report: Interface Message Processor: Specifications for the Interconnection of a Host and an IMP, Rept. 1822, Bolt Beranek and Newman, Inc., Cambridge, Mass., May 1978 revision, available from NTIS as AD A055996. This report is revised periodically. New criteria and standards developed jointly by DCA, the Military Services, and the Defense Agencies will be promulgated by the DCA. All users are expected to meet ARPANET interface specifications.

ARPANET INFORMATION

FUNDING

The operation and maintenance (O&M) of the ARPANET backbone, i.e., nodes, interfaces, and internode communications circuits, is paid through the Communications Services Industrial Fund (CSIF) which is managed and operated by the Defense Communications Agency. The Defense Commercial Communications Office (DECCO) has responsibility for all leasing actions which take place under the CSIF. This function includes normal contract management activities for the ARPANET. All bills for the CSIF portion of the ARPANET are paid by DECCO. Audits of contractors are performed by the Defense Contract Audit Agency (DCAA) at the request of DECCO. The vehicle used to request communication services is the ARPANET TSR which is forwarded to DECCO from DCA Code 535 as the ARPANET manager. Under the working capital or revolving fund concept, predetermined subscriber rates are the basis for recovering the cost of operating and maintaining the backbone network.

The estimated cost to operate and maintain the ARPANET backbone during a fiscal year, divided by the estimated number of IMPs and TIPs in the network, provides the annual cost per year per node:

$$\frac{\text{Total O\&M Cost}}{\# \text{ IMPs and } \# \text{ TIPs}} = \text{Annual Cost per IMP or TIP}$$

All ARPANET customer activities will be billed monthly based on a predetermined cost for each operational node in the backbone. The monthly rate for FY78 is approx. \$6000 and for FY79 and FY80 approx. \$6500.

SECURITY

The ARPANET communications subnet or 'backbone' contains no security features to insure privacy or the protection of classified defense information transiting the network. Therefore, it is the responsibility of sponsors and those operating hosts on the network to take steps to protect information resident or accessible through their host computers from access by unauthorized users, and to provide protection against unauthorized access to classified information which may reside or be accessible via their host computer link to the network.

There are no "login" procedures for initial network access. All access control is provided at the host level.

A secure subnet is possible by providing hosts with a Private Line Interface (PLI). The PLI has been approved by the National Security Agency (NSA) and costs approximately \$55,000 per copy. The user also has to provide a KG34. The PLI subnet can include up to 128 hosts constrained to 32 nodes.

COMPLAINTS

A complaint center teletype is maintained at the NCC for users reporting problems or seeking assistance. Receiving and processing complaints is not purely an NCC function, thus an additional channel for reporting unsatisfactory service has been developed. The ARPANET Unsatisfactory Service Report (USR) has been established as the formal means of reporting deficiencies with respect to the operations of the ARPANET backbone communications.

Problems or complaints which cannot be resolved through normal channels should be reported by means of the USR. The types of problems to be included are, but are not limited to, the following:

- . Excessive response time
- . Inadequate restoral procedures
- . Unsatisfactory maintenance support

The User (Sponsor) must determine when service has reached an unsatisfactory point. The report may be sent over the ARPANET, AUTODIN, or by U.S. Mail. Reports should be addressed to DCA Code 535 with information copies to the NCC at BBN and any other activity as deemed appropriate by the originators. (See CONTACTS section for addresses.)

USING RESOURCES ON THE ARPANET

Although the Resource Handbook describes resources available for use on the ARPANET, mention of a resource in the Handbook in no way guarantees user access. Access to almost any resource, other than the network itself, is under the control of the host on which the resource resides. In all cases it is assumed that any resource described is available only to authorized users who have valid accounts on the host at which they wish to use a given resource. Accounts should be negotiated with the ACCOUNTS contact or with the LIAISON. (See PERSONNEL under any given host entry)

The ARPANET is intended to be used solely for the conduct of, or in support of, official U. S. Government business.

The use of the ARPANET must not be in violation of information privacy laws and is not intended to compete with existing commercial services.

GENERAL CONTACTS

TIP PHONE NUMBERS

The NIC does not provide TIP phone numbers to network users. Access to a TIP is at the discretion of the Sponsor for a given TIP, and is not guaranteed. To obtain a TIP phone number, contact the Liaison for the TIP to be accessed. (See the HOST ACRONYMS section for a list of TIPs, their corresponding Liaison, and their geographical location.)

ARPANET MANAGEMENT, POLICY, AND SERVICE

Questions regarding general policy or access to the ARPANET or unsatisfactory ARPANET service should be sent to

Director, Defense Communications Agency (DCA)
ATTN: ARPANET Management Branch, Maj. Raymond Czahor
Code 535
Washington, D. C. 20305

(202) 692-6175 or 692-6176 (Commercial)
222-6175 or 222-6176 (Autovon)
DCACODE535@ISI (Online mail)

NETWORK OPERATION AND TRAFFIC

Technical questions concerning network operation and usage should be sent to

Network Control Center (NCC)
ATTN: Paul Santos
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 491-1850 ext 3603
SANTOS@BBNE (Online mail)

IMPS, TIPS, AND NETWORK LINE PROBLEMS

Routine questions on IMP and TIP operation and network line problems should be sent to

Network Control Center (NCC)
ATTN: Jim Powers
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 661-0100
POWERS@BBNE (Online mail)

GENERAL CONTACTS

GENERAL NETWORK RESOURCE INFORMATION

Questions regarding what or where resources are located on the network or who to contact should be sent to

Network Information Center (NIC)

ATTN: Elizabeth Feinler

Stanford Research Institute

Menlo Park, California 94025

(415) 326-6200 ext 3695

FEINLER@SRI-KL (Online mail)

PROTOCOLS

Technical questions regarding network protocols should be sent to

Network Working Group Coordinator (NWG)

ATTN: Jon Postel

University of Southern California

Information Science Institute

4676 Admiralty Way

Marina Del Rey, California 90291

(213) 822-1511

POSTEL@USC-ISIB (Online Mail)

NETWORK SPONSORS

NAME U. S. Mail Address City, State, Zip	NIC Ident	Network Mail Address Phone Organization ident(s)	FARISS, Gilbert M. Army Communications Command Services Division Data Communications Branch Mail Stop 110, Building 1465 Fort Belvoir, Virginia 22060	GMF	CE-SVC@SRI-KA (703) 664-5661 (AV) 354-5661 USACC
AVRUNIN, I. Larry David Taylor Naval Ship Research and Development Center Code 1804 Bethesda, Maryland 20084	ILA	AVRUNIN@USC-ISIE (202) 227-1492 DTNSRDC	KIMBALL, H. G. National Aeronautics and Space Administration, HQ. Attn: TN, H. Kimball 600 Independence Avenue, S.W. Washington, D.C. 20546	HGK	Network Address Unknown (202) 755-2480 NASA-HQ
BLANC, Robert P. National Bureau of Standards Building 225, Room B218 Washington, D.C. 20234	RPB	BLANC@NBS-10 (301) 921-3817 NBS-10 NBS-UNIX NBS-TIP	LAWRENCE, Thomas F. Rome Air Development Center Interactive Processing Section (ISCP) Griffiss Air Force Base, New York 13441	TFL	LAWRENCE @RADC-TOPS20 (315) 330-7746 (AV) 587-7746 RADC-TIP
BOIRE, Glen G. Air Force Global Weather Central (MAC/DOP) Offutt Air Force Base, Nebraska 68113	GGB	AFGWC@BBN-TENEXB (402) 294-4934 GWC-TIP	LUNDQUIST, Arthur C. Air Force Systems Command Headquarters/ACDT Andrews Air Force Base, Maryland 20334	ACL	LUNDQUIST@BBN-TENEX (301) 981-6823 (AV) 858-6823 AFSC-HDQ
BROWNFIELD, Robert P. Defense Communications Agency Code 535 Washington, D. C. 20305	RPB2	DCACODE535@USC-ISI (202) 692-6175 (AV) 222-6175 DCA	MUSGRAVE, Clyde Defense Communications Engineering Center Code R820 1860 Wiehle Avenue Reston, Virginia 22090	CMUS	CLYDE@BBN-TENEXB (703) 437-2271 (AV) 364-2271 DCEC-TIP
CARLSON, William E. Advanced Research Projects Agency Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209	WEC	CARLSON@USC-ISI (202) 694-5917 ARPA-TIP	PAYNE, Judd A. National Telecommunications and Information Administration 325 South Broadway Boulder, Colorado 80302	JAP	judd@NTIA-ITS (303) 499-1000 ext 3200 or 4166 NTIA-ITS
CRAIG, Palmer Warner-Robins ALC/MMECV Robins Air Force Base, Georgia 31098	CP10	CRAIG@RADC-TOPS20 (912) 926-6085 WRALC-TIP	POOL, James C. T. Department of Energy Basic Energy Sciences J-309 Washington, D.C. 20545	JCTP	POOL@BBN-TENEX (301) 353-5822 (FTS) 233-5822 DOE
DEITZ, Richard Director, National Security Agency COINS Network Control Center Room 2W153 Ft. George G. Meade Maryland 20755	RD2	COINS@USC-ISI (301) 688-7757 COINS-GATEWAY	SILVERMAN, Mark I. U.S. Geological Survey Mail Stop 801 Reston, Virginia 22092	MIS	Network Address Unknown (703) 860-7117 (FTS) 928-7117 USGS-RESTON USGS1-TIP

NETWORK SPONSORS

THOMAS, John JT2 Thomas@CCTC
Defense Communications (703) 437-2329
Agency CCTC
Command and Control
Technical
Center
11440 Isaac Newton Square
Reston, Virginia 22090

TIDWELL, Rex A. RAT TIDWELL@USC-ISID
Air Force Data Systems (205) 279-4171
Design Center/DMT (AV) 921-4171
Management Technology GUNTER-UNIX
Division GUNTER-TIP
Gunter Air Force Station,
Alabama 36114

NETWORK LIAISON

ACRONYM	ADDR. (Dec)	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
ACCAT-TIP	2/35	TIP	ARPA	Lesemann, Donald (DLESEMANN@USC-ISI)
AFWL	0/48	SERVER	AFSC	Maull, Roy S. (AFWL@I4-TENEX)
AFWL-TIP	2/48	TIP	AFSC	Maull, Roy S. (AFWL@I4-TENEX)
AMES-11	3/16	USER	ARPA	Hart, James P. (HART@AMES-67)
AMES-67	0/16	SERVER	ARPA	Hathaway, A. Wayne (HATHAWAY@AMES-67)
AMES-TIP	2/16	TIP	ARPA	Jones, William Prichard (JONES@I4-TENEX)
ANL	0/55	SERVER	DOE	Amiot, Lawrence W. (AMIOT@BBN-TENEX)
ARPA-DMS	0/28	SERVER	ARPA	McLindon, Connie K. (MCLINDON@USC-ISI)
ARPA-TIP	2/28	TIP	ARPA	McLindon, Connie K. (MCLINDON@USC-ISI)
ARPA-XGP11	3/28	USER	ARPA	McLindon, Connie K. (MCLINDON@USC-ISI)
ASL	1/48	USER	ARPA	Hoffman, John P. (JHOFFMAN@USC-ISIC)
BBN-GATEWAY	3/40	USER	ARPA	Bressler, Robert D. (BRESSLER@BBN-TENEXE)
BBN-INLAT	1/5	USER	ARPA	Grignetti, Mario C. (GRIGNETTI@BBN-TENEX)
BBN-NCC	0/40	USER	DCA	Alexander, Margaret (ALEXANDER@BBN-TENEXD)
BBN-PTIP	2/5	TIP	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-SAC	1/63	USER	DCA	Steele, Douglas W. (STEELE@BBN-TENEXE)
BBN-SPEECH-11	2/49	USER	ARPA	Cosell, Lynn K. (COSELL@BBN-TENEXD)
BBN-TENEX	3/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TENEXA	3/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TENEXB	0/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TENEXD	1/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TENEXE	0/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TENEXF	0/71	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBN-TENEXA)
BBN-TESTIP	2/30	TIP	DCA	Santos, Paul J. (SANTOS@BBN-TENEXE)
BBN-UNIX	0/63	SERVER	ARPA	Nemeth, Alan G. (agn@BBN-UNIX)
BCR-108	1/62	USER	ARPA	Good, Donald I. (good@UTEXAS)
BCR-109	2/52	USER	DCEC	Russell, Dale S. (DALE@USC-ISIB)
BCR-110	0/20	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
BCR-111	3/20	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
BERKELEY	2/34	SERVER	ARPA	Kridle, Robert J. (No Network Mailbox)
BNL	1/58	SERVER	DOE	Campbell, Graham (GCAMPBELL@BBN-TENEXB)
BRAGG-PKT	0/38	USER	ARPA	Hagan, R. Douglas (HAGAN@SRI-KL)
BRAGG-TIP	2/38	TIP	ARPA	Hagan, R. Douglas (HAGAN@SRI-KL)
BRL	0/29	USER	ARMY	Taylor, Donald F. (DTAYLOR@OFFICE-2)
CCA-SDMS	2/31	SERVER	ARPA	Herot, Christopher F. (HEROT@CCA-TENEX)
CCA-SIP	3/31	USER	ARPA	Sattley, Joanne Z. (JZS@CCA-TENEX)
CCA-SPEECH	1/31	SERVER	ARPA	Low, David A. (LOW@CCA-TENEX)
CCA-TENEX	0/31	SERVER	ARPA	Sattley, Joanne Z. (JZS@CCA-TENEX)
CCTC	0/20	SERVER	CCTC	Thomas, John (Thomas@CCTC)
CHI	1/7	SERVER	ARPA	McCammon, Michael (CHI@USC-ISIE)
CINCPAC-TIP	2/36	TIP	ARPA	Lockard, Martin E. (LOCKARD@USC-ISI)
CIT-11	1/54	USER	ARPA	Seitz, Charles (SEITZ@USC-ISI)
CIT-20	0/54	SERVER	ARPA	Seitz, Charles (SEITZ@USC-ISI)
CIT-3032	2/54	USER	ARPA	Seitz, Charles (SEITZ@USC-ISI)
CMU-10A	1/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-10B	0/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-10D	2/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-CMMMP	3/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
COINS-GATEWAY	1/57	SERVER	NSA	Deitz, Richard (COINS@USC-ISI)
COINS-TAS	0/36	USER	ARPA	Lockard, Martin E. (LOCKARD@USC-ISI)

NETWORK LIAISON

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
	(Dec)			
COLLINS-PR	0/46	USER	ARPA	Quilici, Timothy J. (QUILICI@USC-ISIE)
COLLINS-TIP	2/46	TIP	ARPA	Quilici, Timothy J. (QUILICI@USC-ISIE)
CORADCOM-TIP	2/60	TIP	ARPA	Arnold, Joseph (DRDCO-AM@OFFICE-2)
CTO-DDF	1/17	SERVER	ARPA	Wittmeyer, James (WITTMAYER@CCA-TENEX)
DARCOM-TIP	2/50	TIP	ARMY	Biederman, Fred A. (BIEDERMAN@SRI-KA)
DCEC-TIP	2/20	TIP	DCEC	Alonso, Steven (DCEC-R820@BBN-TENEXB)
DCEX-0	0/27	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
DCEX-1	1/27	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
DEC-2136	0/37	USER	ARPA	Zima, Greg (ZIMA@DEC-MARLBORO)
DEC-MARLBORO	1/37	SERVER	ARPA	Zima, Greg (ZIMA@DEC-MARLBORO)
DOCB-TIP	2/25	TIP	DOCB	Walters, William D. (DOCB@USC-ISIE)
DTI	1/12	SERVER	CCTC	Segovich, Fred A. (fred@DTI)
DTNSRDC	1/8	SERVER	NAVY	Tinker, Robert W. (DTNSRDC@USC-ISIE)
EDN-UNIX	3/20	SERVER	DCEC	Cain, Edward A. (cain@EDN-UNIX)
EGLIN	0/53	SERVER	AFSC	Spies, Herbert A. (SPIES@BBN-TENEX)
EGLIN-DEV	2/53	SERVER	AFSC	George, Calvin R. (SPIES@BBN-TENEX)
ETAC	0/59	USER	MAC/AFGWC	Freimund, Marvin L. (No Network Mailbox)
FNWC	1/33	USER	ARPA	Bradford, Brian E. (No Network Mailbox)
FNWC-SECURE	3/33	USER	ARPA	Bradford, Brian E. (No Network Mailbox)
GUNTER-TIP	2/13	TIP	AFDSDC	Potter, Jack C. (jpotter@GUNTER-UNIX)
GUNTER-UNIX	0/13	SERVER	AFDSDC	Breitling, Robert J. (BREITLING@USC-ISID)
GWC-TIP	2/24	TIP	MAC/AFGWC	Volk, Richard E. (AFGWC@BBN-TENEXB)
HARV-10	0/9	SERVER	ARPA	Mealy, George H. (MEALY@HARV-10)
HI-MULTICS	0/24	SERVER	ARPA	Kruckas, Joseph (Kruckas@HI-MULTICS)
HQAFSC-TIP	2/67	TIP	AFSC	Krenik, Mark J. (No Network Mailbox)
I4-TENEX	0/15	SERVER	NASA	Weissman, Robert L. (WEISSMAN@I4-TENEX)
I4B-TENEX	2/15	SERVER	NASA	Weissman, Robert L. (WEISSMAN@I4-TENEX)
ISI-SPEECH11	0/22	USER	ARPA	Casner, Stephen L. (CASNER@USC-ISIB)
ISI-XGP11	0/52	USER	ARPA	Cass, Dwight E. (CASS@USC-ISIE)
KDCB-DCEC	0/20	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
KDCR-DCEC	3/20	USER	DCEC	Margolis, Abe (MARGOLIS@BBN-TENEXB)
LBL	0/34	SERVER	DOE	Hall, Dennis E. (hall@LBL-UNIX)
LBL-UNIX	1/34	SERVER	DOE	Hall, Dennis E. (hall@LBL-UNIX)
LL	0/10	SERVER	ARPA	Haines, Edward C. (HAINES@LL)
LL-11	3/10	SERVER	ARPA	Kantrowitz, William (WK@LL-XN)
LL-ASG	1/44	SERVER	ARPA	Schroder, Ken (liaison@LL-ASG)
LL-XN	2/10	SERVER	ARPA	Joyce, Elizabeth P. (EPJ@LL-XN)
LLL-COMP	0/21	SERVER	DOE	Swanson, John E. (jes@LLL-COMP)
LLL-MFE	1/21	SERVER	DOE	Howard, Barry C. (HOWARD@LLL-MFE)
LLL-S1	2/21	SERVER	DOE	Chin, Hon Wah (HWC@SU-AI)
LOGICON	2/3	USER	ARPA	Soleglad, Michael E. (LOGICON@USC-ISI)
LONDON	0/42	SERVER	ARPA	Das, Sunil K. (PKT-UCL@SRI-KL)
LONDON-GATEWAY	3/42	USER	ARPA	Gamble, Hugh R. (No Network Mailbox)
LONDON-TIP	2/42	TIP	ARPA	Das, Sunil K. (PKT-UCL@SRI-KL)
LONDON-VDH	1/42	SERVER	ARPA	Higginson, Peter L. (KIRSTEIN@USC-ISI)
MARTIN	3/53	USER	AFSC	Theisn, Russell E. (No Network Mailbox)
MIT-AI	2/6	SERVER	ARPA	Knight, Thomas F. (TK@MIT-AI)
MIT-DEVMULTICS	4/31	SERVER	ARPA	Greenberg, Bernard (Greenberg@MIT-Multics)
MIT-DMS	1/6	SERVER	ARPA	Galley, Stuart W. (SWG@MIT-DMS)
MIT-MC	3/44	SERVER	ARPA	Moon, David (MOON@MIT-MC)

ACRONYM	ADDR. (Dec)	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
MIT-ML	3/6	SERVER	ARPA	Lewis, V. Ellen (ELLEN@MIT-MC)
MIT-MULTICS	0/6	SERVER	ARPA	Scott, Richard D. (Scott@MIT-Multics)
MIT-TIP	2/44	TIP	ARPA	Feingold, Oded (OAF@MIT-MC)
MIT-XX	0/44	SERVER	ARPA	Travers, Michael I. (MT@MIT-XX)
MITRE	0/17	SERVER	ARPA	Holmgren, Steven F. (steve@MITRE)
MITRE-TIP	2/17	TIP	ARPA	Poh, Susan S. (POH@USC-ISI)
MOFFETT-ARC	0/45	SERVER	ARPA	Lau, Robert S. (LAU@I4-TENEX)
MOFFETT-SUBNET	1/45	USER	ARPA	Lau, Robert S. (LAU@I4-TENEX)
NADC	3/8	USER	NBS	Calkins, Ted (NADC@OFFICE-1)
NBS-10	0/19	SERVER	NBS	Rosenthal, Lynne (LYNNE@NBS-10)
NBS-TIP	2/19	TIP	NBS	Nielsen, Frances H. (NIELSEN@NBS-10)
NBS-UNIX	3/19	SERVER	NBS	Rosenthal, Robert (ROSENTHAL@NBS-10)
NCC-TIP	2/40	TIP	DCA	Santos, Paul J. (SANTOS@BBN-TENEX)
NCSC	1/53	USER	NAVY	Brown, J. David (JDB@NCSC)
NDRE	1/41	USER	ARPA	Lundh, Yngvar G. (YNGVAR@SRI-KA)
NDRE-GATEWAY	3/41	USER	ARPA	Lundh, Yngvar G. (YNGVAR@SRI-KA)
NORSAR-40A	0/41	USER	ARPA	Lundh, Yngvar G. (YNGVAR@SRI-KA)
NORSAR-TIP	2/41	TIP	ARPA	Fyen, Jan (DAGRM@SRI-KA)
NOSC-CC	0/3	SERVER	NAVY	Unger, Robert A. (Unger@NOSC-CC)
NOSC-SDL	1/35	SERVER	ARPA	Harvey, Howard J. (HARVEY@USC-ISIC)
NOSC-SECURE2	0/35	USER	ARPA	Metzger, John P. (JMETZGER@USC-ISIB)
NOSC-SECURE3	3/35	USER	ARPA	Metzger, John P. (JMETZGER@USC-ISIB)
NOSC-SPEL	1/3	SERVER	ARPA	Hammond, John (HAMMOND@I4-TENEX)
NPRDC-UNIX	4/3	SERVER	NAVY	Noel, J. Gregory (greg@NOSC-SDL)
NPS	0/33	USER	ARPA	Norman, David F. (NORMAN@USC-ISIE)
NPS-TIP	2/33	TIP	ARPA	Norman, David F. (NORMAN@USC-ISIE)
NRL	0/8	SERVER	NAVY	Shannon, Douglas P. (NRL@USC-ISIE)
NSWC-DL	4/8	SERVER	NAVY	Stemple, Eugene P. (NSWC-DL@USC-ISIE)
NSWC-WO	2/8	SERVER	NAVY	Archer, Robert D. (NSWC@OFFICE-1)
NTIA-ITS	0/25	SERVER	DOCB	Payne, Judd A. (judd@NTIA-ITS)
NUSC	3/58	USER	NAVY	Quigley, Donald A. (dquigley@NUSC-NPT)
NUSC-NPT	2/9	SERVER	NAVY	Schneller, Steve (steve@NUSC-NPT)
NWC	3/3	SERVER	NAVY	Zenor, John J. (NWC@USC-ISIE)
NYU	0/58	SERVER	DOE	Franceschini, Ed (FRANCESCHINI@BBN-TENEX)
OFFICE-1	0/43	SERVER	ARMY	Torres, Israel A. (TORRES@OFFICE-2)
OFFICE-2	1/43	SERVER	ARMY	Torres, Israel A. (TORRES@OFFICE-2)
OFFICE-3	2/43	SERVER	ARMY	Torres, Israel A. (TORRES@OFFICE-2)
PARC-GATEWAY	1/32	USER	ARPA	Taft, Edward A. (TAFT@PARC-MAXC)
PARC-MAXC	0/32	SERVER	ARPA	Taft, Edward A. (TAFT@PARC-MAXC)
PARC-MAXC2	2/32	SERVER	ARPA	Taft, Edward A. (TAFT@PARC-MAXC)
PENT-UNIX	3/26	USER	AFSDSC	Muir, Charles W. (No Network Mailbox)
PENTAGON-TIP	2/26	TIP	ARPA	Muir, Charles W. (No Network Mailbox)
RADC-MULTICS	0/18	SERVER	RADC	Walker, Robert K. (Walker@RADC-MULTICS)
RADC-TIP	2/18	TIP	RADC	Walker, Robert K. (Walker@RADC-MULTICS)
RADC-TOPS20	3/18	SERVER	RADC	Metzger, Richard A. (METZGER@RADC-TOPS20)
RADC-XPER	1/18	SERVER	RADC	Metzger, Richard A. (METZGER@RADC-TOPS20)
RAND-RCC	0/7	SERVER	ARPA	Wahrman, Michael L. (mike@RAND-UNIX)
RAND-TIP	2/7	TIP	ARPA	Shell, Ron (SHELL@RAND-RCC)
RAND-UNIX	3/7	SERVER	ARPA	O'Brien, Michael (OBrien@RAND-UNIX)
ROCHESTER	1/18	SERVER	ARPA	Burke, Edward J. (FELDMAN@SUMEX-AIM)

NETWORK LIAISON

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
	(Dec)			
SANDIA	3/48	USER	DOE	Linnerooth, Thomas B. (SANDIA@DEC-MARLBORO)
SCI-ICS	3/32	SERVER	ARPA	McCune, Brian P. (BPM@SU-AI)
SDAC-44	3/39	SERVER	ARPA	Hill, Alan R. (hill@SDAC-UNIX)
SDAC-CCP	0/39	USER	ARPA	Miller, Douglas (miller@SDAC-UNIX)
SDAC-NEP	2/39	USER	ARPA	Hill, Alan R. (hill@SDAC-UNIX)
SDAC-UNIX	1/39	SERVER	ARPA	Whitaker, D. Anne (whit@SDAC-UNIX)
SRI-C3PO	1/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL)
SRI-KA	0/51	SERVER	ARMY	Cower, Richard (COWER@SRI-KL)
SRI-KL	1/2	SERVER	ARPA	Cower, Richard (COWER@SRI-KL)
SRI-NSC11	3/2	USER	ARPA	Craighill, Earl (CRAIGHILL@SRI-KL)
SRI-R2D2	3/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL)
SRI-TSC	0/2	SERVER	ARPA	Craighill, Earl (CRAIGHILL@SRI-KL)
SRI-UNIX	2/51	SERVER	ARPA	Bass, John L. (bass@SRI-UNIX)
SRI-VIS11	2/2	USER	ARPA	Goodfellow, Geoffrey S. (GEOFF@SRI-KA)
STL-TIP	2/61	TIP	ARMY	Saum, James A. (JSAUM@SRI-KA)
SU-AI	0/11	SERVER	ARPA	Crispin, Mark R. (Admin.MRC@SU-SCORE)
SU-ISL	1/56	SERVER	ARPA	Stewart, Larry (LStewart@PARC-MAXC)
SU-SCORE	3/11	SERVER	ARPA	Crispin, Mark R. (Admin.MRC@SU-SCORE)
SU-TIP	2/11	TIP	ARPA	McCune, Brian P. (BPM@SU-AI)
SUMEX-AIM	0/56	SERVER	ARPA	Tucker, Robert (TUCKER@SUMEX-AIM)
TYCHO	0/57	USER	NSA	Weiss, Howard S. (DEDWARDS@USC-ISI)
UCLA-ATS	0/1	SERVER	ARPA	Nelson, Louis C. (lou@UCLA-ATS)
UCLA-CCN	1/1	SERVER	ARPA	Braden, Robert T. (BRADEN@UCLA-CCN)
UCLA-SECURITY	2/1	SERVER	ARPA	Kline, Charles S. (CSK@USC-ISI)
UDEL	1/50	SERVER	ARMY	Szurkowski, Edward S. (Szurko@UDEL-EE)
USAFA-GATEWAY	1/25	SERVER	ARPA	Ravenscroft, Donald (raven@USAFA-GATEWAY)
USC-ECL	3/23	SERVER	ARPA	Wiedel, James (WIEDEL@USC-ECL)
USC-ISI	1/22	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIB	3/52	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIC	2/22	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISID	3/22	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIE	1/52	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-TIP	2/23	TIP	ARPA	Pepin, James M. (PEPIN@USC-ECL)
USGS1-TIP	2/68	TIP	USGS	Silverman, Mark I. (No Network Mailbox)
USGS2-TIP	2/69	TIP	USGS	Terrazas, Robert (No Network Mailbox)
USGS3-TIP	2/70	TIP	USGS	Doherty, Patrick (No Network Mailbox)
UTAH-11	0/4	USER	ARPA	Randall, George E. (GRANDALL@USC-ISIE)
UTAH-20	3/4	SERVER	ARPA	Frank, Randall (FRANK@UTAH-20)
UTAH-TIP	2/4	TIP	ARPA	Ogden, Stewart (OGDEN@USC-ISIE)
UTEXAS	0/62	SERVER	ARPA	Phillips, David M. (david@UTEXAS)
WHARTON	1/19	SERVER	ARPA	Morgan, Howard L. (MORGAN@WHARTON)
WPAFB	0/47	SERVER	AFSC	Jansen, Wayne A. (JANSEN@BBN-TENEX)
WPAFB-AFAL	1/47	SERVER	AFSC	Burton, C. Daniel (BURTON@WPAFB-AFAL)
WPAFB-TIP	2/47	TIP	AFSC	Fall, Leonard B. (JANSEN@BBN-TENEX)
WRALC-TIP	2/64	TIP	AFSC	Craig, Palmer (CRAIG@RADC-TOPS20)

NETWORK INDIVIDUALS

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AARON, Leslie E. Naval Electronics Systems Command Code 31011 NC-1 Washington, D.C. 20360	LES2	NAVELEX@USC-ISIE (202) 692-6412 ext 15 NAVELEX	ABUHAMDEH, Anis M. SRI International NLA Tower 12/16 Addiscombe Road Croydon CRO OXT ENGLAND	AMA	ABUHAMDEH@SRI-KL (01) 681-1751 SRI-KL
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ABBOTT, Robert Commander Anniston Army Depot Attn: SDSAN-DMS, R. Abbott Anniston, Alabama 36201	BA	SDSAN-DMS@SRI-KA (205) 238-7531 (AV) 694-7531 DARCOM-TIP	ACKERMAN, William B. Massachusetts Institute of Technology Laboratory for Computer Science Room 524 545 Technology Square Cambridge, Massachusetts 02139	WBA	WBA@MIT-ML MIT-ML
ABEL, Nicolas L. Linkabit Corporation 10453 Roselle Street University Industrial Park San Diego, California 92121	NLA	ABEL@USC-ISIE (714) 453-7007 LINKABIT	ACURIO, John Director Propulsion Laboratory Army Research and Technology Laboratories (AVRADCOM) Attn: DAVDL-PL-D, J. Acurio Lewis Research Center 21000 Brookpark Road Cleveland, Ohio 44135	ACU	ACURIO@OFFICE-1 (216) 433-4000 ext 6185 AVRADCOM
ABELSON, Hal Massachusetts Institute of Technology Laboratory for Computer Science NE43-803 545 Technology Square Cambridge, Massachusetts 02139	HA3	HAL@MIT-MC (617) 253-5856 MIT-MC	ADAMS, Duane A. Advanced Research Projects Agency Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209	DAA	ADAMS@USC-ISI (202) 694-8096 ARPA-TIP

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ADAMS, James L. University of California Office of Academic Computing Math - Science Addition Los Angeles, California 90024	JLA	ADAMS@UCLA-CCN (213) 825-7529 UCLA-CCN	ALCOCK, John University of Bristol H.H. Wills Physics Laboratory Tyndall Avenue Bristol BSB 1TL ENGLAND	JA9	Network Address Unknown 0272-24161 LONDON-TIP
ADRION, Richards National Bureau of Standards Programming Science Division Institute for Computer Science and Technology NBS Technology A265 Washington, D.C. 20234	RA	ADRION@NBS-10 (301) 921-3485 NBS-10	ALEXANDER, Lloyd E. SRI International NLA Tower 12/16 Addiscombe Road Croydon CRO OXT ENGLAND	LEA	ALEXANDER@SRI-KL (01) 681-1751 SRI-KL
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AHLGREN, Reba M. Air Force Data Systems Design Center/PREM Gunter Air Force Station, Alabama 36114	RMA	DSDC-PREM@USC-ISID (205) 279-4281 GUNTER-TIP	ALFONSIN, Joseph E. Commander Army Armament Research and Development Command Attn: DRDAR-MSD, J. Alfonsin Dover, New Jersey 07801	JEA	DRDAR-MS@OFFICE-2 (201) 328-2105 ARRADCOM
AIELLO, Luigia C. Stanford University Artificial Intelligence Laboratory Stanford, California 94305	LCA	LCA@SU-AI (415) 497-4971 SU-AI	ALFORD, Seth D. Argonne National Laboratory 9700 S. Cass Avenue Argonne, Illinois 60439	SDA	JPJ@MIT-ML (312) 972-7664 ANL
AIKEN, Edward Lewis Naval Research Laboratory Code 1705 Washington, D.C. 20375	ELA	NRL@USC-ISIE (202) 767-3903 NRL	ALLAN, Daniel S. SRI International 333 Ravenswood Avenue Menlo Park, California 94025	DSA1	DALLAN@SRI-KL (415) 326-6200 ext 3636 SRI-KL
AIKINS, Jan Stanford University Department of Computer Science Stanford, California 94305	JA6	AIKINS@SUMEX-AIM (415) 497-3661 SUMEX-AIM	ALLEN, Don C. Bolt Beranek and Newman Inc. Research Computer Center 50 Moulton Street Cambridge, Massachusetts 02138	DCA2	ALLEN@BBN-TENEXA (617) 491-1850 ext 4510 BBN-TENEX
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ALSBERG, Peter A. Digital Technology, Inc. 302 East John Street Champaign, Illinois 61820	PAA2	alsberg@DTI (217) 384-8500 DTI	AMSLER, Robert A. University of Texas Linguistics Research Center P.O. Box 7247 Austin, Texas 78712	RAA2	amsler@UTEXAS (512) 471-4166 or 471-4566 UTEXAS
ALSOP, Helen J. Commander Army Automated Logistics Management Systems Activity Attn: DRXAL-F, H. Alsop P.O. Box 1578 St. Louis, Missouri 63188	HJA	DRXAL-F@OFFICE-1 (314) 263-5509 (AV) 693-5509 ALMSA	ANDERSON, Bruce C. Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138	BCA	BANDERSON @BBN-TENEXD (617) 491-1850 ext 3652 BBN-NCC
ALTER, Ralph Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, Massachusetts 02138	RA7	RALTER@BBN-TENEXD (617) 491-1850 ext 3151 BBN-NCC	ANDERSON, Charles A. SRI International 333 Ravenswood Avenue Menlo Park, California 94025	CAA	ANDERSON@SRI-KL (415) 326-6200 ext 5001 SRI-KL
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ANDERSON, Dave Digital Equipment Corporation MRI - 2/E17 200 Forest Street Marlborough, Massachusetts 01752	DA	ANDERSON@BBN-TENEX (617) 481-9511 ext 6348 DEC-MARLBORO	ANDREAE, Peter M. Massachusetts Institute of Technology Artificial Intelligence Laboratory 545 Technology Square Cambridge, Massachusetts 02139	PMA	PONDY@MIT-AI (617) 253-7836 MIT-AI
ANDERSON, David W. Naval Ocean Systems Center 271 Catalina Boulevard San Diego, California 92152	DWA	ANDERSON@USC-ISI (714) 225-2831 ACCAT-TIP	ANDREASSEN, Leiv Bolt Beranek and Newman Inc. 6626 Bubblingwell Place San Jose, California 95120	LA	LEIV@BBN-TENEXD (408) 268-8546 BBN-NCC
ANDERSON, Gary SRI International 1611 N. Kent Street Arlington, Virginia 22209	GA1	GANDERSON@SRI-KL (703) 524-3479 SRI-KL	ANDREE, Fred Massachusetts Computer Associates, Inc. 26 Princess Street Wakefield, Massachusetts 01880	FA	COMPASS@BBN-TENEX (617) 245-9540 COMPASS
ANDERSON, Ned Kent State University Department of Mathematics Kent, Ohio 44242	NA3	NEDA@MIT-MC (216) 672-2547 KENT	ANDREWS, Don I. P.O. Box 182 Occidental, California 95465	DIA	ANDREWS@OFFICE-2 (408) 446-6603 or (707) 874-3548 OFFICE-2
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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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ARPANET DIRECTORY
NIC 47000 Oct. 1979

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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ARPANET DIRECTORY
NIC 47000 Oct. 1979

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

NETWORK ADDRESSES INDEX

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NETWORK ADDRESSES INDEX

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

NETWORK ADDRESSES INDEX

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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ARPA NETWORK DIRECTORY
NIC 47000 Oct. 1979

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPA.NET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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**ARPANET DIRECTORY
NIC 47000 Oct. 1979**

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AMES-67	NASA Ames Research Center Moffett Field, California 94035	BCR-108	University of Texas 2100 Main Building Austin, Texas 78712
AMES-TIP	NASA Ames Research Center Computation Division Moffett Field, California 94035	BCR-109 ISI-SPEECH11 ISI-XGP11 USC-ISI USC-ISIB USC-ISIC USC-ISID USC-ISIE	University of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, California 90291
ANL	Argonne National Laboratory Applied Mathematics Division Building 221 9700 South Cass Avenue Argonne, Illinois 60439	BCR-110 BCR-111 DCEX-0 DCEX-1 KDCB-DCEC KDCR-DCEC	Defense Communications Engineering Center Code R540 1860 Wiehle Avenue Reston, Virginia 22090
ARPA-DMS	Advanced Research Projects Agency Management Information Systems Division Office 1400 Wilson Boulevard Arlington, Virginia 22209	BERKELEY	University of California Electrical Engineering and Computer Science 187M Cory Hall Berkeley, California 94720
ARPA-TIP ARPA-XGP11	Advanced Research Projects Agency Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209	BNL	Brookhaven National Laboratory Applied Mathematics Department Upton, New York 11973
ASL	U.S. Geological Survey Albuquerque Seismological Laboratory Kirtland Air Force Base East Albuquerque, New Mexico 87115	BRAGG-PKT BRAGG-TIP	Army Airborne Board ADDS Experiment Building 2-1728 Fort Bragg, North Carolina 28307

HOST ACRONYMS

BRL	Armament Research and Development Command Attn: DRDAR-MSG-T Aberdeen Proving Ground, Maryland 21005	DARCOM-TIP	Army Materiel Development and Readiness Command Attn: DRXLS-LH 5001 Eisenhower Avenue Alexandria, Virginia 22333
CCA-SDMS CCA-SIP CCA-SPEECH CCA-TENEX	Computer Corporation of America 575 Technology Square Cambridge, Massachusetts 02139	DCA	Defense Communications Agency Code 530, Arpanet Management Branch Washington, D.C. 20305
CCTC	Defense Communications Agency Command and Control Technical Center 11440 Isaac Newton Square Reston, Virginia 22090	DCEC-TIP EDN-UNIX	Defense Communications Engineering Center Code R820 1860 Wiehle Avenue Reston, Virginia 22090
CHI	CHI Systems Inc. 150-A Aero Camino Goleta, California 93017	DEC-2136 DEC-MARLBORO	Digital Equipment Corporation 200 Forest Street Marlborough, Massachusetts 01752
CINCPAC-TIP COINS-TAS	Commander in Chief, Pacific Command CINCPAC Staff J211 P.O. Box 10 Camp Smith, Hawaii 96861	DOCB-TIP	Department of Commerce National Telecommunications and Information Administration 325 Broadway Boulder, Colorado 80302
CIT-11 CIT-20 CIT-3032	California Institute of Technology Computer Science Department Mail Stop 256-80 Pasadena, California 91125	DTI	Digital Technology Inc. 302 East John Street Champaign, Illinois 61820
CMU-10A CMU-10B CMU-10D CMU-CMMP	Carnegie-Mellon University Computer Science Department Schenley Park Pittsburgh, Pennsylvania 15213	DTNSRDC	David Taylor Naval Ship Research and Development Center Bethesda, Maryland 20084
COINS-GATEWAY	National Security Agency COINS Network Control Center Ft. George G. Meade, Maryland 20755	EGLIN EGLIN-DEV	Armament Development and Test Center (AFSC) ADTC/ADDS Eglin Air Force Base, Florida 32542
COLLINS-PR COLLINS-TIP	Collins Telecommunication Systems Division Rockwell International Mail Stop 401-137 P.O. Box 10462 Dallas, Texas 75207	ETAC	Air Force Environmental Technical Application Center Scott Air Force Base, Illinois 62225
CORADCOM-TIP	Communications Research and Development Command (CORADCOM) Ft. Monmouth, New Jersey 07703	FNWC FNWC-SECURE	Navy Fleet Numerical Weather Central Monterey, California 93940
CTO-DDF	Computer Corporation of America Cybernetics Technology Office Demo and Development Systems Suite 903 1600 Wilson Boulevard Arlington, Virginia 22209	GUNTER-TIP GUNTER-UNIX	Air Force Data Systems Design Center/DMT Management Technology Division Gunter Air Force Station, Alabama 36114
		GWC-TIP	Air Force Global Weather Central MAC/DO Offutt Air Force Base, Nebraska 68113
		HARV-10	Harvard University Aiken Computation Laboratory 33 Oxford Street Cambridge, Massachusetts 02138

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NIC 47000 Oct. 1979**

HOST ACRONYMS

HI-MULTICS	Honeywell Inc. Computer Network Operations Honeywell Plaza MN12-3187 Minneapolis, Minnesota 55408	LOGICON	Logicon Inc. Applied Data Systems Department (3000) 4010 Sorrento Valley Boulevard P.O. Box 80158 San Diego, California 92138
HQAFC-TIP	Headquarters Air Force Systems Command/ACDT Andrews Air Force Base, Maryland 20334	LONDON LONDON-GATEWAY LONDON-TIP LONDON-VDH	University College London Department of Statistics and Computer Science Gower Street London, WC1E 6BT ENGLAND
I4-TENEX I4B-TENEX	Institute for Advanced Computation 1095 East Duane Avenue Sunnyvale, California 94086	MARTIN	Martin Marietta Corporation Orlando Division P.O. Box 5837 Orlando, Florida 32855
LBL LBL-UNIX	University of California Lawrence Berkeley Laboratory Computer Science and Applied Math Department 1 Cyclotron Road Berkeley, California 94720	MIT-AI	Massachusetts Institute of Technology Artificial Intelligence Laboratory 545 Technology Square Cambridge, Massachusetts 02139
LL-11 LL-XN	Massachusetts Institute of Technology Lincoln Laboratory Speech Systems Technology Group 244 Wood Street Lexington, Massachusetts 02173	MIT-DEVMULTICS	Honeywell Information Systems Inc. Cambridge Information Systems Laboratory 545 Technology Square, 3rd Floor Cambridge, Massachusetts 02139
LL-ASG	Massachusetts Institute of Technology Lincoln Laboratory Applied Seismology Group 42 Carleton Street Cambridge, Massachusetts 02142	MIT-DMS MIT-XX	Massachusetts Institute of Technology Laboratory for Computer Science 545 Technology Square Cambridge, Massachusetts 02139
LL	Massachusetts Institute of Technology Lincoln Laboratory Computer Systems Group 244 Wood Street Lexington, Massachusetts 02173	MIT-MC	Massachusetts Institute of Technology Laboratory for Computer Science Mathlab Group 545 Technology Square Cambridge, Massachusetts 02139
LLL-COMP	University of California Lawrence Livermore Laboratory L-307 P.O. Box 808 Livermore, California 94550	MIT-ML	Massachusetts Institute of Technology Knowledge Based Systems 545 Technology Square Cambridge, Massachusetts 02139
LLL-MFE	University of California Lawrence Livermore Laboratory MFE Computer Center L-402 P.O. Box 5509 Livermore, California 94550	MIT-MULTICS	Massachusetts Institute of Technology Information Processing Services ARCS 39-417 77 Massachusetts Avenue Cambridge, Massachusetts 02139
LLL-S1	University of California Lawrence Livermore Laboratory L-276 P.O. Box 808 Livermore, California 94550	MIT-TIP	Massachusetts Institute of Technology Laboratory for Computer Science Technical Services Group 545 Technology Square Cambridge, Massachusetts 02139

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MITRE MITRE-TIP	MITRE/METREK Corporation Information Systems Department Westgate Research Park 1820 Dolley Madison Boulevard McLean, Virginia 22102	NPRDC-UNIX	Naval Personnel Research and Development Center San Diego, California 92152
MOFFETT-ARC MOFFETT-SUBNET	Advanced Research Projects Agency (ARPA) Research Center Unit 1, Building 301 Moffett Field, California 94035	NPS NPS-TIP	Naval Postgraduate School W. R. Church Computer Center Monterey, California 93940
NADC	Naval Air Development Center Warminster, Pennsylvania 18974	NRL	Naval Research Laboratory Code 1721 Washington, D.C. 20375
NBS-10 NBS-TIP NBS-UNIX	National Bureau of Standards Institute for Computer Sciences and Technology Washington, D.C. 20234	NSWC-DL	Naval Surface Weapons Center Dahlgren Laboratory Dahlgren, Virginia 22448
NCSC	Naval Coastal Systems Center Code 732 Panama City, Florida 32407	NSWC-WO	Naval Surface Weapons Center White Oak Laboratory Silver Spring, Maryland 20910
NDRE NDRE-GATEWAY	Norwegian Defence Research Establishment P.O. Box 25 2007 Kjeller NORWAY	NTIA-ITS	Department of Commerce National Telecommunications and Information Administration 325 South Broadway Boulder, Colorado 80302
NORSAR-40A NORSAR-TIP	Royal Norwegian Council for Scientific and Industrial Research NTNF/NORSAR P.O. Box 51 N2007 Kjeller NORWAY	NUSC-NPT	Naval Underwater Systems Center Computer Science Department Newport, Rhode Island 02840
NOSC-CC	Naval Ocean Systems Center Code 9131 271 Catalina Boulevard San Diego, California 92152	NUSC	Naval Underwater Systems Center Code 441 New London, Connecticut 06320
NOSC-SDL	Naval Ocean Systems Center Systems Design Laboratory Code 822 271 Catalina Boulevard San Diego, California 92152	NWC	Naval Weapons Center Code 31302 China Lake, California 93555
NOSC-SECURE2 NOSC-SECURE3	Naval Ocean Systems Center Code 8321 EDATL Building 600A 271 Catalina Boulevard San Diego, California 92152	NYU	New York University Courant Institute of Mathematical Sciences Courant Mathematics and Computing Laboratory 251 Mercer Street New York, New York 10012
NOSC-SPEL	Naval Ocean Systems Center 271 Catalina Boulevard San Diego, California 92152	OFFICE-1 OFFICE-2 OFFICE-3	Tymshare, Inc. Augmentation Resources Center 20705 Valley Green Drive Cupertino, California 95014
		PARC-GATEWAY PARC-MAXC PARC-MAXC2	Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Road Palo Alto, California 94304

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PENT-UNIX	Air Force Data Services Center/SFA	SU-AI	Stanford University
PENTAGON-TIP	The Pentagon	SU-TIP	Artificial Intelligence Laboratory
	Washington, D. C. 20330		Stanford, California 94305
RADC-MULTICS	Rome Air Development Center	SU-ISL	Stanford University
RADC-TIP	Research and Development Computer Facility (ISF)		Information Systems Laboratory
	Griffiss Air Force Base, New York 13441		Durand Building 105
			Stanford, California 94305
RADC-TOPS20	Rome Air Development Center	SU-SCORE	Stanford University
RADC-XPER	Interactive Processing Section (ISCP)		Department of Computer Science
	Griffiss Air Force Base, New York 13441		Stanford, California 94305
RAND-RCC	The Rand Corporation	SUMEX-AIM	Stanford University Medical Center
RAND-TIP	Rand Computation Center		SUMEX-AIM Computer Project, TB105
	1700 Main Street		Stanford, California 94305
	Santa Monica, California 90406		
RAND-UNIX	The Rand Corporation	TYCHO	National Security Agency
	1700 Main Street		Fort George G. Meade, Maryland 20755
	Santa Monica, California 90406		
ROCHESTER	University of Rochester	UCLA-ATS	University of California
	Computer Science Department		Computer Science Department
	Rochester, New York 14627		3531 Boelter Hall
			Los Angeles, California 90024
SANDIA	Sandia Laboratories	UCLA-CCN	University of California
	Division 2113		Office of Academic Computing
	Albuquerque, New Mexico 87185		Math-Science Addition
			Los Angeles, California 90024
SCI-ICS	Systems Control Inc.	UCLA-SECURITY	University of California
	Institute of Computer Science		Computer Science Department
	1801 Page Mill Road		Security Research Group
	Palo Alto, California 94304		3532 Boelter Hall
			Los Angeles, California 90024
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SDAC-CCP	Seismic Data Analysis Center		Department of Electrical Engineering
SDAC-NEP	P.O. Box 334		Newark, Delaware 19711
SDAC-UNIX	Alexandria, Virginia 22313		
SRI-C3PO	SRI International	USAFA-GATEWAY	U.S. Air Force Academy
SRI-NSC11	Telecommunications Sciences Center		DFACS/ERCC
SRI-R2D2	333 Ravenswood Avenue		Colorado 80840
SRI-TSC	Menlo Park, California 94025		
SRI-KA	SRI International	USC-ECL	University of Southern California
SRI-KL	Computer Resources		Engineering Computer Laboratory
SRI-UNIX	333 Ravenswood Avenue		Powell Hall of Information Sciences
SRI-VIS11	Menlo Park, California 94025		Room 204
			Los Angeles, California 90007
STL-TIP	Army Troop Support and Aviation Readiness Command (TSARCOM)	USC-TIP	University of Southern California
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	4300 Goodfellow Boulevard		Powell Hall of Information Sciences
	St. Louis, Missouri 63120		Los Angeles, California 90007

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USGS2 - TIP	U.S. Geological Survey Denver Computation Branch Mail Stop 801 P.O. Box 25046 Denver Federal Center Denver, Colorado 80225
USGS3 - TIP	U.S. Geological Survey Computer Center Division Menlo Park Computation Branch 345 Middlefield Road Menlo Park, California 94025
UTAH-11 UTAH-20 UTAH-TIP	University of Utah Computer Science Department 3160 Merrill Engineering Building Salt Lake City, Utah 84112
UTEXAS	University of Texas Computation Center Austin, Texas 78712
WHARTON	University of Pennsylvania The Wharton School Decision Science Department Room W-83, Dietrich Hall Philadelphia, Pennsylvania 19104
WPAFB-AFAL	Air Force Avionics Laboratory AFAL/AAF Wright Patterson Air Force Base, Ohio 45433
WPAFB WPAFB-TIP	Aeronautical Systems Division Computer Center ASD/ADOS Wright-Patterson Air Force Base, Ohio 45433
WRALC - TIP	Warner-Robins ALC/MMECV Robins Air Force Base, Georgia 31098

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ACC	Associated Computer Consultants P.O. Box 2641 Station A Champaign, Illinois 61820	ARCS	Army Ordnance Center and School Aberdeen Proving Ground, Maryland 21005
ACDA	Arms Control and Disarmament Agency Advanced Technology Division Room 5499 The State Department Washington, D.C. 20541	ARMTE	Army Material Test and Evaluation (ARMTE) White Sands Missile Range Attn: STEWS-TE-PC White Sands Missile Range, New Mexico 88002
ACSC	Army Computer Systems Command Mail Stop C-107 Fort Belvoir, Virginia 22060	ARMY-SIG	Army Signal School Signal Towers Fort Gordon, Georgia 30905
AFIPS	American Federation of Information Processing Societies Washington Office 1815 N. Lynn, Suite 805 Arlington, Virginia 22209	ARRADCOM	Army Armament Research and Development Command Dover, New Jersey 07801
AFLRL	Army Fuel and Lubricants Research Laboratory 8500 Culebra Road P.O. Drawer 28510 San Antonio, Texas 78284	ARSG	Army Research and Standardization Group, Europe Edison House 223 Old Marylebone Road London NW 5TH ENGLAND
AIRMICS	Army Institute for Research in Management Information in Computer Science CSCS/ATY Suite 900 730 Peachtree Street, N.E. Atlanta, Georgia 30308	AVRADCOM	Army Aviation Research and Development Command P.O. Box 209 St. Louis, Missouri 63166
ALMSA	Army Automated Logistics Management Systems Activity P.O. Box 1578 St. Louis, Missouri 63188	BELVOIR	Army Mobility Equipment Research and Development Command Attn: DRXFB-B Fort Belvoir, Virginia 22060
AMETA	Army Management Engineering Training Agency Rock Island, Illinois 61299	BOEING	Boeing Computer Services Mail Stop 38-05 P.O. Box 24346 Seattle, Washington 98124
AMMRC	Army Materials and Mechanics Research Center Watertown, Massachusetts 02172	CACI	CACI, Inc. 1815 North Fort Myer Drive Arlington, Virginia 22209
AMRDL	Army Air Mobility Research and Development Laboratories Eustis Directorate Fort Eustis, Virginia 23604	CAI	Cabledata Associates, Inc. 701 Welch Road Palo Alto, California 94304
ANASC	Analytical Assessments Corporation P.O. Box 9695 Marina Del Rey, California 90291	CINCATLAN	Commander in Chief, Atlantic Command Code J202A Atlantic Command Norfolk, Virginia 23511

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COMPASS	Massachusetts Computer Associates, Inc. 26 Princess Street Wakefield, Massachusetts 01880	ECOM	Army Electronics Command Graphics System and Technology Branch Research and Development TSA Fort Monmouth, New Jersey 07703
COMPSCI	Computer Science Corporation 2251 San Diego Avenue San Diego, California 92110	EOP	Office of the President The White House Washington, D.C. 20500
COMSAT	Communications Satellite Company (COMSAT) Computer Center 22300 Comsat Drive Clarksburg, Maryland 20734	FCC	Federal Communication Commission Office of Science and Technology 2025 M Street, N.W. Washington, D.C. 20554
COMSAT - WASHINGTON	Communications Satellite Company (COMSAT) Earth Station Transmission Engineering Department 950 L'Enfant Plaza, S.W. Washington, D.C. 20024	FORD - AEROSPACE	Ford Aerospace and Communications Corporation 3939 Fabian Way Palo Alto, California
CSC	Computer Sciences Corporation Systems Division Mail Code 251 6565 Arlington Boulevard Falls Church, Virginia 22046	GSGI	Gagliardi Systems Group, Inc. 51 Main Street Salem, New Hampshire 03079
CTEC	CTEC, Inc. 7777 Leesburg Pike Falls Church, Virginia 22046	HARRIS	Harris Electronic Systems Development P.O. Box 37 Melbourne, Florida 32901
CYCLADES	Institut de Recherche d'Informatique et d'Automatique (IRIA) Reseau Cyclades 78150 Rocquencourt FRANCE	HDL	Harry Diamond Laboratories Attn: DELHD - MI 2800 Powder Mill Road Adelphi, Maryland 20783
DDI	Decisions and Designs, Inc. Suite 600 8400 Westpark Drive McLean, Virginia 22101	HQNAVMAT	Headquarters Naval Material Command HQNAVMAT (08Y) 2221 Jefferson Davis Highway Arlington, Virginia 20360
DECISION	Decision Research 1201 Oak Street Eugene, Oregon 94701	IDA	Institute for Defense Analysis 100 Prospect Avenue Princeton, New Jersey 08540
DMAP	Defense Mapping Agency St. Louis Air Force Station St. Louis, Missouri 63118	IIT	Illinois Institute of Technology Beecnes Carriage Suite Turin Road Rome, New York 13440
DOE	U.S. Department of Energy Office of Computer Services and Telecommunications Management Mail Stop Ca-234 Washington, D.C. 20545	INFOMEDIA	Infomedia Corporation 430 Sherman Avenue Palo Alto, California 94306
DUGWAY	Dugway Proving Ground Dugway, Utah 80220	KENT	Kent State University Department of Mathematics Kent, Ohio 44242

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NIC 47000 Oct. 1979**

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KEYDATA	Keydata Corporation 1400 Wilson Boulevard Suite 100 Arlington, Virginia 22209	NAVCOSSACT	Naval Command Systems Support Activity NAVCOSSACT Code 10.3 Building 196, WNY Washington, D.C. 20374
LGHF	Air Force Electronics Systems Division (ESD/MCI) Stop 36 L.G. Hanscom Field Bedford, Massachusetts 01730	NAVELEX	Naval Electronics Systems Command Code 31011 NC-1 Washington, D. C. 20360
LINKABIT	Linkabit Corporation 10453 Roselle Street University Industrial Park San Diego, California 92121	NAVELEX-VJO	Naval Electronic Systems Engineering Center Vallejo, California 94592
LOGICA	Logica Ltd. 64 Newman Street London W1A 4SE UNITED KINGDOM	NCC	National Climatic Center Federal Building Asheville, North Carolina 28801
MAAP	McAlester Army Ammunition Plant McAlester, Oklahoma 74501	NCP	National Computer Performance Company 907 Flying Fish Street Foster City, California 94404
MCCLELLAND-AFB	Sacramento Air Logistic Center ALC/MMECF McClelland Air Force Base Sacramento, California 95652	NDU	National Defense University Director, Research Directorate Washington, D.C. 20319
MERADCOM	Army Mobility Equipment Research and Development Command Attn: DRXFB-B Fort Belvoir, Virginia 22060	NMA	Network Management Associates, Inc. 17301 Drey Lane Huntington Beach, California 92647
NAC	Network Analysis Corporation 130 Steamboat Road Great Neck, New York 11024	NORDA	Naval Ocean Research and Development Activity NORDA Code 302 St. Louis, Missouri
NALCOM	Naval Air Systems Command 1421 Jefferson-Davis Highway Jefferson Plaza Bldg. 2 Room 312 Code 401-E Arlington, Virginia 20361	NPL	National Physical Laboratory Computer Science Division Teddington, Middlesex ENGLAND
NARADCOM	Natick Army Research and Development Command Natick, Massachusetts 01760	NSF	National Science Foundation Division of Information Systems 1800 G Street, N.W. Washington, D.C. 20550
NASA-HQ	National Aeronautics and Space Administration, Hq. 600 Independence Avenue S.W. Washington, D.C. 20546	NWSC	Naval Weapon Support Center Crane, Indiana 47522
		OASD	Office of The Secretary of Defense, OASD (C31) Information Systems Room 3B252 The Pentagon Washington, D.C. 20301

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ONR	Office of Naval Research Information Systems Programs 800 North Quincy Street Arlington, Virginia 22217	RML	Range Measurements Laboratory Attn: ENLD Patrick Air Force Base, Florida 32925
ONR-LONDON	Office of Naval Research (UK) Command Control and Communications Branch Office Box 39 FPO New York, New York 09510	ROCKEFELLER	The Rockefeller University New York, New York 10021
OREGON-STATE	Oregon State University Computer Science Department Corvallis, Oregon 97331	RUTGERS	Rutgers University Laboratory for Computer Science Research (LCSR) Department of Computer Science Hill Center/Busch Campus New Brunswick, New Jersey 08903
OTP	Office of Telecommunications Policy Executive Office of the President 1800 G Street, N. W. Washington, D.C. 20504	SAC	Strategic Air Command Hq. (LGBA) Omaha, Nebraska
OUSDRE	OUSDRE(R&AT) 3D1079 The Pentagon Washington, D.C. 20301	SCI-APP	Science Applications, Inc. 7935 E. Prentice Avenue Englewood, Colorado 80111
PASSOC	Product Associates 317 Lake View Way Redwood City, California 94062	SCRL-RSX	Speech Communications Research Laboratory, Inc. 806 West Adams Boulevard Los Angeles, California 90007
PENDLETON	Commanding Officer NCTSSA Marine Corp Base Camp Pendleton, California 92055	SDC-LAB	System Development Corporation 2500 Colorado Avenue Santa Monica, California 90406
PERCEPTRONICS	Perceptrronics 1901 N. Moore St. Suite 802 Arlington, Virginia 22209	SGL	Army Computer Systems Command Support Group Fort Lee, Virginia 23801
PROBE	Probe Systems, Inc. 655 North Pastoria Avenue Sunnyvale, California 94086	SOFTECH	SofTech, Inc. 460 Totten Pond Road Waltham, Massachusetts 02154
PTC	Pacific Telephone Company Room 703 85 2nd Street San Francisco, California 94105	SPERRY-UNIVAC	Sperry Univac Mail Stop U2-U22 P.O. Box 3525 St. Paul, Minnesota 55165
PURDUE	Purdue University Department of Electrical Engineering West Lafayette, Indiana 47907	SSA	Social Security Administration Management Analyst, OAS, DD 6401 Security Blvd. Baltimore, Maryland 21235
RIA	Department of the Army Gen. Thomas J. Rodman Laboratory Rock Island Arsenal Rock Island, Illinois 61201	SU-CSL	Stanford University Computer Systems Laboratory Stanford, California 94305

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NIC 47000 Oct. 1979**

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SU-NA	Stanford University Numerical Analysis Margaret Jacks Hall Stanford, California 94305	UCI	University of California Department of Information and Computer Science Irvine, California 92717
SU-SCIP	Stanford University Stanford Computer and Information Processing (SCIP) 119 Encina Hall Stanford, California 94305	UCLA-BC	University of California Bio-Cybernetics Computer Science Department 3714 Boelter Hall Los Angeles, California 90024
SU-STAT	Stanford University Department of Statistics Sequoia Hall Stanford, California 94305	UCLA-CCBS	University of California Psychology Department 405 Hilgard Avenue Los Angeles, California 90024
TECOM	Army Test and Evaluation Command Aberdeen Proving Ground, Maryland 21005	UDL	Universite de Liege Faculte des Sciences Appliquees Regulation et Automatique Avenue des Tilleuls, 49 B-4000 Liege BELGIUM
TELENET	Telenet Communications, Inc. 1050 17th Street, N.W. Washington, D.C. 20036	USACC	Army Communications Command Data Communications Branch Stop: 110, Building 1465 Fort Belvoir, Virginia 22060
TEX-INSTR	Texas Instruments Company P.O. Box 6015 Dallas, Texas 75222	USAF	Headquarters United States Air Force (AF/XOA) The Pentagon Washington, D.C. 20330
TINK-418	Air Force Communications Computer Programming Center L93-DOSP Tinker Air Force Base Oklahoma City, Oklahoma 73145	USAWARC	Army War College Carlisle Barracks, Pennsylvania 17013
TRAB	Air Force School of Applied Aerospace Science Training Research Applications Branch (TTOE) Chanute Air Force Base, Illinois 61868	USC-IRRI	International Relations Research Institute USC, Director Von Kelinsmid Center Room 301 Los Angeles, California 90007
TRADOC	Army Training and Doctrine Command Fort Monroe, Virginia 23651	USC-SSRI	University of Southern California Social Science Research Institute 950 W. Jefferson Boulevard Los Angeles, California 90007
TRW	TRW Systems Group 1 Space Park Redondo Beach, California 90278		
TUFTS	Tufts University Department of Mathematics Medford, Massachusetts 02155	USGS	U.S. Geological Survey NASA Ames Research Center Mail Stop 242-4 Moffett Field, California 94035
TYNDALL	Air Force Engineering Service Center/DEV Tyndall Air Force Base, Florida 32403		

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USGS-RESTON	U.S. Geological Survey Mail Stop 801 Reston, Virginia 22092
WATERVLIET	Watervliet Arsenal Watervliet, New York 12189
WESTERN-UNION	Western Union Government Systems Division 7916 Westpark Drive McLean, Virginia 22102
WSMR	Army White Sands Missile Range White Sands Missile Range, New Mexico 88002
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Army Management Engineering Training Agency Rock Island, Illinois 61299	AMETA	Army White Sands Missile Range White Sands Missile Range, New Mexico 88002	WSMR
Army Material Test and Evaluation (ARMTE) White Sands Missile Range Attn: STEWS-TE-PC White Sands Missile Range, New Mexico 88002	ARMTE	Army Yuma Proving Ground Yuma, Arizona 85364	YUMA
		Associated Computer Consultants P.O. Box 2641 Station A Champaign, Illinois 61820	ACC

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CACI, Inc. 1815 North Fort Myer Drive Arlington, Virginia 22209	CAI	Communications Satellite Company (COMSAT) Computer Center 22300 Comsat Drive Clarksburg, Maryland 20734	COMSAT
California Institute of Technology Computer Science Department Mail Stop 256-80 Pasadena, California 91125	CACI	Communications Satellite Company (COMSAT) Earth Station Transmission Engineering Department 950 L'Enfant Plaza, S.W. Washington, D.C. 20024	COMSAT - WASHINGTON
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CHI Systems Inc. 150-A Aero Camino Goleta, California 93017	CMU-10A CMU-10B CMU-10D CMU-CMMP	Computer Corporation of America Cybernetics Technology Office Demo and Development Systems Suite 903 1600 Wilson Boulevard Arlington, Virginia 22209	CTO-DDF
Collins Telecommunication Systems Division Rockwell International Mail Stop 401-137 P.O. Box 10462 Dallas, Texas 75207	CHI COLLINS-PR COLLINS-TIP	Computer Sciences Corporation Systems Division Mail Code 251 6565 Arlington Boulevard Falls Church, Virginia 22046	CSC
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Decisions and Designs, Inc. Suite 600 8400 Westpark Drive McLean, Virginia 22101	DDI	Ford Aerospace and Communications Corporation 3939 Fabian Way Palo Alto, California	FORD - AEROSPACE
Defense Communications Agency Command and Control Technical Center 11440 Isaac Newton Square Reston, Virginia 22090	CCTC	Gagliardi Systems Group, Inc. 51 Main Street Salem, New Hampshire 03079	GSGI
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Defense Communications Engineering Center Code R540 1860 Wiehle Avenue Reston, Virginia 22090	BCR- 110 BCR- 111 DCEX-0 DCEX-1 KDCB-DCEC KDCR-DCEC	Harvard University Aiken Computation Laboratory 33 Oxford Street Cambridge, Massachusetts 02138	HARV - 10
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Department of Commerce National Telecommunications and Information Administration 325 South Broadway Boulder, Colorado 80302	DOCB-TIP NTIA-ITS	Headquarters United States Air Force (AF/XOA) The Pentagon Washington, D.C. 20330	USAF
Department of the Army Gen. Thomas J. Rodman Laboratory Rock Island Arsenal Rock Island, Illinois 61201	RIA	Honeywell Inc. Computer Network Operations Honeywell Plaza MN12-3187 Minneapolis, Minnesota 55408	HI - MULTICS
Digital Equipment Corporation 200 Forest Street Marlborough, Massachusetts 01752	DEC- 2136 DEC-MARLBORO	Honeywell Information Systems Inc. Cambridge Information Systems Laboratory 545 Technology Square, 3rd Floor Cambridge, Massachusetts 02139	MIT - DEVMULTICS
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Naval Research Laboratory Code 1721 Washington, D.C. 20375	NRL	Office of Naval Research (UK) Command Control and Communications Branch Office Box 39 FPO New York, New York 09510	ONR-LONDON
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Product Associates 317 Lake View Way Redwood City, California 94062	PASSOC	Speech Communications Research Laboratory, Inc. 806 West Adams Boulevard Los Angeles, California 90007	SCRL - RSX
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Strategic Air Command Hq. (LGBA) Omaha, Nebraska	SAC	U.S. Department of Energy Office of Computer Services and Telecommunications Management Mail Stop Ca - 234 Washington, D.C. 20545	DOE
System Development Corporation 2500 Colorado Avenue Santa Monica, California 90406	SDC - LAB	U.S. Geological Survey Albuquerque Seismological Laboratory Kirtland Air Force Base East Albuquerque, New Mexico 87115	ASL
Systems Control Inc. Institute of Computer Science 1801 Page Mill Road Palo Alto, California 94304	SCI - ICS	U.S. Geological Survey NASA Ames Research Center Mail Stop 242 - 4 Moffett Field, California 94035	USGS
Teledyne Geotech Seismic Data Analysis Center P.O. Box 334 Alexandria, Virginia 22313	SDAC - 44 SDAC - CCP SDAC - NEP SDAC - UNIX	U.S. Geological Survey Denver Computation Branch Mail Stop 801 P.O. Box 25046 Denver Federal Center Denver, Colorado 80225	USGS - DENVER USGS2 - TIP
Telenet Communications, Inc. 1050 17th Street, N.W. Washington, D.C. 20036	TELENET	U.S. Geological Survey Menlo Park Computation Branch 345 Middlefield Road Menlo Park, California 94025	USGS - MENLO USGS3 - TIP
Texas Instruments Equipment Group Dallas, Texas	TI	U.S. Geological Survey Mail Stop 801 Reston, Virginia 22092	USGS - RESTON USGS1 - TIP
Texas Instruments Company P.O. Box 6015 Dallas, Texas 75222	TEX - INSTR	Universite de Liege Faculte des Sciences Appliquees Regulation et Automatique Avenue des Tilleuls, 49 B-4000 Liege BELGIUM	UDL
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PARC-MAXC
PARC-MAXC2

Yale University
Department of Computer Science
10 Hillhouse Avenue
New Haven, Connecticut 06520

YALE

HOST # /IMP # /ASSIGNMENTS

HOST # /IMP # (Dec)	HOST NAME	STATUS
0/1	UCLA-ATS	SERVER, Limited
1/1	UCLA-CCN	SERVER
2/1	UCLA-SECURITY	SERVER, Limited
0/2	SRI-TSC	SERVER, Limited
1/2	SRI-KL	SERVER
2/2	SRI-VIS11	USER
3/2	SRI-NSC11	USER
0/3	NOSC-CC	SERVER (VDH), Limited
1/3	NOSC-SPEL	SERVER, Limited
2/3	LOGICON	USER (VDH)
3/3	NWC	SERVER (VDH)
4/3	NPRDC-UNIX	SERVER (VDH), Limited
0/4	UTAH-11	USER
2/4	UTAH-TIP	TIP
3/4	UTAH-20	SERVER
0/5	BBN-TENEXE	SERVER
1/5	BBN-INLAT	USER
2/5	BBN-PTIP	TIP
3/5	BBN-TENEXA	SERVER
0/6	MIT-MULTICS	SERVER
1/6	MIT-DMS	SERVER
2/6	MIT-AI	SERVER
3/6	MIT-ML	SERVER
0/7	RAND-RCC	SERVER
1/7	CHI	SERVER (VDH), Limited
2/7	RAND-TIP	TIP
3/7	RAND-UNIX	SERVER
0/8	NRL	SERVER, Limited
1/8	DTNSRDC	SERVER (VDH)
2/8	NSWC-WO	SERVER (VDH), Limited
3/8	NADC	USER (VDH)
4/8	NSWC-DL	SERVER (VDH), Limited
0/9	HARV-10	SERVER, Limited
2/9	NUSC-NPT	SERVER (VDH), Limited
0/10	LL	SERVER, Limited
2/10	LL-XN	SERVER, Limited
3/10	LL-11	SERVER, Limited
0/11	SU-AI	SERVER, Limited
2/11	SU-TIP	TIP
3/11	SU-SCORE	SERVER, Limited
1/12	DTI	SERVER, Limited
0/13	GUNTER-UNIX	SERVER, Limited
2/13	GUNTER-TIP	TIP
0/14	CMU-10B	SERVER, Limited
1/14	CMU-10A	SERVER, Limited
2/14	CMU-10D	SERVER, Limited
3/14	CMU-CMMP	SERVER, Limited
0/15	I4-TENEX	SERVER
2/15	I4B-TENEX	SERVER, Limited
0/16	AMES-67	SERVER
2/16	AMES-TIP	TIP
3/16	AMES-11	USER
0/17	MITRE	SERVER, Limited
1/17	CTO-DDF	SERVER (VDH), Limited
2/17	MITRE-TIP	TIP
0/18	RADC-MULTICS	SERVER
1/18	RADC-XPER	SERVER (VDH), Limited
Shared port	ROCHESTER	SERVER (VDH), Limited
2/18	RADC-TIP	TIP
3/18	RADC-TOPS20	SERVER, Limited
0/19	NBS-10	SERVER (VDH), Limited
1/19	WHARTON	SERVER (VDH), Limited
2/19	NBS-TIP	TIP

HOST ADDRESSES

HOST # / IMP # (Dec)	HOST NAME	STATUS
3/19	NBS-UNIX	SERVER, Limited
0/20	CCTC	SERVER, Limited
0/20	Shared port	USER
0/20	Shared port	USER
2/20	Shared port	TIP
3/20	Shared port	SERVER, Limited
3/20	Shared port	USER
3/20	Shared port	USER
0/21	LLL-COMP	SERVER, Limited
1/21	LLL-MFE	SERVER, Limited
2/21	LLL-S1	SERVER, Limited
0/22	ISI-SPEECH11	USER
1/22	USC-ISI	SERVER
2/22	USC-ISIC	SERVER
3/22	USC-ISID	SERVER
2/23	USC-TIP	TIP
3/23	USC-ECL	SERVER
0/24	HI-MULTICS	SERVER
2/24	GWC-TIP	TIP, Magtape
0/25	NTIA-ITS	SERVER, Limited
1/25	USAFA-GATEWAY	SERVER (VDH), Limited
2/25	DOCB-TIP	TIP
2/26	PENTAGON-TIP	TIP
3/26	PENT-UNIX	USER
0/27	DCEX-0	USER
1/27	DCEX-1	USER
0/28	ARPA-DMS	SERVER, Limited
2/28	ARPA-TIP	TIP
3/28	ARPA-XGP11	USER
0/29	BRL	USER
2/30	BBN-TESTIP	TIP, Magtape
0/31	CCA-TENEX	SERVER
1/31	CCA-SPEECH	SERVER, Limited
2/31	CCA-SDMS	SERVER, Limited
3/31	CCA-SIP	USER
4/31	MIT-DEVMULTICS	SERVER, Limited
0/32	PARC-MAXC	SERVER, Limited
1/32	PARC-GATEWAY	USER
2/32	PARC-MAXC2	SERVER, Limited
3/32	SCI-ICS	SERVER (VDH), Limited
0/33	NPS	USER
1/33	FNWC	USER (VDH)
2/33	NPS-TIP	TIP
3/33	FNWC-SECURE	USER (VDH)
0/34	LBL	SERVER
1/34	LBL-UNIX	SERVER, Limited
2/34	BERKELEY	SERVER, Limited
0/35	NOSC-SECURE2	USER
1/35	NOSC-SDL	SERVER (VDH), Limited
2/35	ACCAT-TIP	TIP
3/35	NOSC-SECURE3	USER
0/36	COINS-TAS	USER
2/36	CINCPAC-TIP	TIP
0/37	DEC-2136	USER
1/37	DEC-MARLBORO.	SERVER
0/38	BRAGG-PKT	USER (VDH)
2/38	BRAGG-TIP	TIP
0/39	SDAC-CCP	USER
1/39	SDAC-UNIX	SERVER
2/39	SDAC-NEP	USER
3/39	SDAC-44	SERVER
0/40	BBN-NCC	USER
2/40	NCC-TIP	TIP
3/40	BBN-GATEWAY	USER
0/41	NORSAR-40A	USER
1/41	NDRE	USER (VDH)
2/41	NORSAR-TIP	TIP

HOST # / IMP # (Dec)	HOST NAME	STATUS
3/41	NDRE-GATEWAY	USER (VDH)
0/42	LONDON	SERVER, Limited
1/42	LONDON-VDH	SERVER (VDH), Limited
2/42	LONDON-TIP	TIP
3/42	LONDON-GATEWAY	USER
0/43	OFFICE-1	SERVER
1/43	OFFICE-2	SERVER
2/43	OFFICE-3	SERVER
0/44	MIT-XX	SERVER
1/44	LL-ASG	SERVER (VDH)
2/44	MIT-TIP	TIP
3/44	MIT-MC	SERVER
0/45	MOFFETT-ARC	SERVER, Limited
1/45	MOFFETT-SUBNET	USER
0/46	COLLINS-PR	USER
2/46	COLLINS-TIP	TIP
0/47	WPAFB	SERVER, Limited
1/47	WPAFB-AFAL	SERVER (VDH)
2/47	WPAFB-TIP	TIP
0/48	AFWL	SERVER, Limited
1/48	ASL	USER (VDH), Magtape
2/48	AFWL-TIP	TIP
3/48	SANDIA	USER (VDH)
0/49	BBN-TENEXB	SERVER
1/49	BBN-TENEXD	SERVER, Limited
2/49	BBN-SPEECH-11	USER
3/49	BBN-TENEX	SERVER
1/50	UDEL	SERVER (VDH)
2/50	DARCOM-TIP	TIP
0/51	SRI-KA	SERVER
1/51	SRI-C3PO	USER
2/51	SRI-UNIX	SERVER, Limited
3/51	SRI-R2D2	USER
0/52	ISI-XGP11	USER
1/52	USC-ISIE	SERVER
2/52	BCR-109	USER
3/52	USC-ISIB	SERVER, Limited
0/53	EGLIN	SERVER, Limited
1/53	NCSC	USER (VDH)
2/53	EGLIN-DEV	SERVER, Limited
3/53	MARTIN	USER (VDH)
0/54	CIT-20	SERVER
1/54	CIT-11	USER
2/54	CIT-3032	USER
0/55	ANL	SERVER
0/56	SUMEX-AIM	SERVER
1/56	SU-ISL	SERVER, Limited
0/57	TYCHO	USER
1/57	COINS-GATEWAY	SERVER, Limited
0/58	NYU	SERVER
1/58	BNL	SERVER (VDH)
3/58	NUSC	USER (VDH)
0/59	ETAC	USER
2/60	CORADCOM-TIP	TIP
2/61	STL-TIP	TIP
0/62	UTEXAS	SERVER, Limited
1/62	BCR-108	USER
0/63	BBN-UNIX	SERVER, Limited
1/63	BBN-SAC	USER
2/64	WRALC-TIP	TIP
2/67	HQAFSC-TIP	TIP
2/68	USGS1-TIP	TIP
2/69	USGS2-TIP	TIP
2/70	USGS3-TIP	TIP
0/71	BBN-TENEXF	SERVER

COMPUTER CONFIGURATIONS

EXPLANATION

This table is divided into two parts. The first part is organized by Host Name Acronyms and the second by Host Address. (For a definition of host name acronyms, see the HOST ACRONYMS table.)

For each host listed there is a description of the computer configuration for that host. The first computer mentioned in this description is attached to the IMP and is by definition the 'host' computer. Other computers are attached to the host computer as indicated by the arrows.

Text enclosed in parentheses () after the name of a computer describes the operating system in use on that computer.

Type designations are:

S = Server host

U = User host

T = TIP

VDH = Very distant host

NOTE: The configuration of machines on the ARPANET changes often, so this table undoubtedly contains inaccuracies. Send corrections or additions to FEINLER@SRI-KL.

ORGANIZED BY HOST NAME

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
ACCAT-TIP	2/35	T	Pluribus TIP
AFWL	0/48	S	PDP-11/50(RSX-11M + SAMNET NFE) -> CYBER-176(NOS/BE) -> Local net and SAMNET -> 3 CYBER-203s
AFWL-TIP	2/48	T	MLC -> CDC-2550(CCP) -> CDC-6600(NOS/BE) -> Local net and SAMNET
AMES-11	3/16	U	PDP-11/45(RSX11M) -> PDP-11/10
AMES-67	0/16	S	IBM-360/67(TSS/360)
AMES-TIP	2/16	T	H-316
ANL	0/55	S	VARIAN-73 -> IBM-360/75 -> IBM-370/195(OS/MVT, ASP) -> 2 IBM-3033s
ARPA-DMS	0/28	S	HP-3000(DMS)
ARPA-TIP	2/28	T	H-316
ARPA-XGP11	3/28	U	PDP-11/40(ELF) -> Xerox Graphics Printer
ASL	1/48	U	PDP-11/10(ELF)
BBN-GATEWAY	3/40	U	PDP-11/40(ELF) -> SATNET
BBN-INLAT	1/5	U	PDP-11/40(Custom built)
BBN-NCC	0/40	U	H-316
BBN-PTIP	2/5	T	Pluribus TIP
BBN-SAC	1/63	U	PDP-11/34
BBN-SPEECH-11	2/49	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B
BBN-TENEX	3/49	S	DEC-10(TENEX)
BBN-TENEXA	3/5	S	DEC-2050T(TOPS-20AN)
BBN-TENEXB	0/49	S	DEC-10(TENEX)
BBN-TENEXD	1/49	S	DEC-1090T(TOPS-20AN)
BBN-TENEXE	0/5	S	DEC-10(TENEX)
BBN-TENEXF	0/71	S	DEC-2040T(TOPS-20AN)
BBN-TESTIP	2/30	T	H-316
BBN-UNIX	0/63	S	Pluribus(PLI) -> PDP-11/70(UNIX)
BCR-108	1/62	U	BCR
BCR-109	2/52	U	BCR -> DEC-10(TENEX)
BCR-110	0/20	U	BCR
BCR-111	3/20	U	BCR -> PDP-11/70(UNIX)
BERKELEY	2/34	S	PDP-11/70(UNIX)
BNL	1/58	S	PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE, INTERCOM) -> CDC-7600(SCOPE)
BRAGG-PKT	0/38	U	PDP-11/34(UNIX)
BRAGG-TIP	2/38	T	H-316
BRL	0/29	U	PDP-11/40(ANTS)
CCA-SDMS	2/31	S	PDP-11/70(UNIX)
CCA-SIP	3/31	S	PDP-11/40(SIP custom) -> SATNET
CCA-SPEECH	1/31	S	PDP-11/40(ELF)
CCA-TENEX	0/31	S	DEC-10(TENEX, DATALANGUAGE) -> Tera-bit memory
CCTC	0/20	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
CHI	1/7	S	VDH MP-32-> MP-32A -> AP-90(SIGNAL)
CINCPAC-TIP	2/36	T	H-316
CIT-11	1/54	U	PDP-11/34(UNIX)
CIT-20	0/54	S	DEC-2060(TOPS-20)
CIT-3032	2/54	U	IBM-3032
CMU-10A	1/14	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
CMU-10B	0/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-10D	2/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-CMMP	3/14	S	5 PDP-11/20s and 11 PDP-11/40s(HYDRA) Multiprocessor
COINS-GATEWAY	1/57	S	Pluribus(PLI) -> PDP-11/34(UNIX)
COINS-TAS	0/36	U	Pluribus (PLI) -> PDP-11/45(UNIX)
COLLINS-PR	0/46	U	PDP-11/34(RT-11 3B)

COMPUTERS BY HOST

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
COLLINS-TIP	2/46	T	H-316
CORADCOM-TIP	2/60	T	H-316
CTO-DDF	1/17	S VDH	PDP-11/70(UNIX)
DARCOM-TIP	2/50	T	H-316
DCEC-TIP	2/20	T	H-316
DCEX-O	0/27	U	BCR -> various
DCEX-1	1/27	U	BCR -> various
DEC-2136	0/37	U	DEC-2060T(TOPS-20AN)
DEC-MARLBORO	1/37	S	DEC-2020T(TOPS-20AN)
DOCB-TIP	2/25	T	H-316
DTI	1/12	S	PDP-11/70(UNIX)
DTNSRDC	1/8	S VDH	PDP-11/40(UNIX) -> CDC-6400(NOS/BE)
EDN-UNIX	3/20	S	PDP-11/70(UNIX)
EGLIN	0/53	S	PDP-11/45(RSX11M) -> CDC-6600(NOS/BE)
EGLIN-DEV	2/53	S	PDP-11/60(RSX11M)
ETAC	0/59	U	PDP-11/45(ELF)
FNWC	1/33	U VDH	PDP-11/60(RSX11M) -> CDC-6500(SCOPE)
FNWC-SECURE	3/33	U VDH	Pluribus(PLI) -> PDP-11/34(RSX11M) -> CDC-6500(SCOPE)
GUNTER-TIP	2/13	T	H-316
GUNTER-UNIX	0/13	S	PDP-11/35(UNIX)
GWC-TIP	2/24	T	H-316
HARV-10	0/9	S S	DEC-10(TOPS-10)
HI-MULTICS	0/24	S S	H68/80(MULTICS)
HQAFSC-TIP	2/67	T S	Pluribus TIP
I4-TENEX	0/15	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s-> ILLIAC-IV(ACL)
I4B-TENEX	2/15	S	DEC-10(TENEX) -> ILLIAC-IV(ACL)
ISI-SPEECH11	0/22	S U	PDP-11/45(EPOS, DOS) -> FPS AP-120B
ISI-XGP11	0/52	U U	PDP-11/40(ELF) -> Xerox Graphics Printer
KDCB-DCEC	0/20	U U	LSI-11
KDCR-DCEC	3/20	U S	LSI-11
LBL	0/34	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
LBL-UNIX	1/34	S	PDP-11/34(UNIX)
LL	0/10	S S	IBM-370/168(VM/370)
LL-11	3/10	S	PDP-11/45(UNIX)
LL-ASG	1/44	S VDH	PDP-11/50(UNIX)
LL-XN	2/10	S	PDP-11/70(UNIX)
LLL-COMP	0/21	S S	PDP-11/70(UNIX)
LLL-MFE	1/21	S S	DEC-1070(TOPS-10)
LLL-S1	2/21	S S	S-1
LOGICON	2/3	U VDH	PDP-11/45(UNIX)
LONDON	0/42	S	PDP-9 -> IBM-360/195s dual processor (OS-MVT and HASP) -> GEC-4080(GCOS) -> EPSS Net
LONDON-GATEWAY	3/42	U	PDP-11/35(ELF) -> SATNET
LONDON-TIP	2/42	T	H-316
LONDON-VDH	1/42	S VDH	PDP-9 -> EPSS -> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
MARTIN	3/53	U VDH	PDP-11/45(RSX11M)
MIT-AI	2/6	S S	DEC-10(ITS)-> PDP-11/20 -> Terminals
MIT-DEVMULTICS	4/31	S S	H-68/80(Multics)
MIT-DMS	1/6	S S	DEC-10(ITS)
MIT-MC	3/44	S S	DEC-1080(ITS)
MIT-ML	3/6	S S	DEC-10(ITS)
MIT-MULTICS	0/6	S S	H-6180(Multics)
MIT-TIP	2/44	T	H-316
MIT-XX	0/44	S	DEC-2060T(TOPS-20AN)

HOST NAME	HOST/IMP	TYPE	CONFIGURATION/OPERATING SYSTEM
	(Dec)		
MITRE	0/17	S	PDP-11/70(UNIX)
MITRE-TIP	2/17	T	H-316
MOFFETT-ARC	0/45	S	DEC-10(TENEX)
MOFFETT-SUBNET	1/45	U	Pluribus(PLI) -> DEC-10(TENEX)
NADC	3/8	VDH	PDP-11/40(ELF) -> CDC-6600/CYBER 175(KRONOS, NOS)
NBS-10	0/19	S	DEC-1050T(TOPS-10)
NBS-TIP	2/19	T	H-316
NBS-UNIX	3/19	S	PDP-11/45(UNIX) -> Inhouse network
NCC-TIP	2/40	T	H-316
NCSC	1/53	VDH	PDP-11/40(UNIX) -> B-5500(MCP XVI)
NDRE	1/41	UU	NDRD-10(SINTRAN-3)
NDRE-GATEWAY	3/41	UU	PDP-11/40(ELF) -> SATNET
NORSAR-40A	0/41	U	IBM-360/40(DOS)
NORSAR-TIP	2/41	T	H-316
NOSC-CC	0/3	S	VDH PDP-11/40(UNIX) -> UNIVAC-1110
NOSC-SDL	1/35	S	VDH PDP-11/40(UNIX)
NOSC-SECURE2	0/35	U	Pluribus(PLI) -> DEC-10(TENEX)
NOSC-SECURE3	3/35	U	Pluribus(PLI) -> PDP-11/70(UNIX) -> DEC-2040T (TOPS-20AN)
NOSC-SPEL	1/3	S	Pluribus(PLI) -> PDP-11/70(UNIX-PWB)
NPRDC-UNIX	4/3	SV	VDH PDP-11/70(UNIX)
NPS	0/33	U	Pluribus(PLI) -> PDP-11/70(UNIX)
NPS-TIP	2/33	T	H-316
NRL	0/8	S	PDP-11/40(UNIX) -> TI-ASC(GPOS)
NSWC-DL	4/8	SV	VDH PDP-11/40(ELF) -> CDC-6700
NSWC-WO	2/8	S	VDH CDC-6500(NOS)
NTIA-ITS	0/25	S	PDP-11/40(UNIX)
NUSC	3/58	U	VDH PDP-11/40(ELF) -> VAX 11/780
NUSC-NPT	2/9	S	VDH PDP-11/70(UNIX)
NWC	3/3	S	VDH PDP-11/40(UNIX) -> UNIVAC-1110
NYU	0/58	S	VDH PDP-11/40(ELF) -> CDC-6600(NOS) -> VAX-11/780(VMS)
OFFICE-1	0/43	S	DEC-10(TENEX)
OFFICE-2	1/43	SS	DEC-10(TENEX)
OFFICE-3	2/43	S	DEC-10(TENEX)
PARC-GATEWAY	1/32	U	NOVA-800 -> Internal Net
PARC-MAXC	0/32	SS	MAXC(TENEX)
PARC-MAXC2	2/32	S	MAXC(TENEX)
PENT-UNIX	3/26	U	PDP-11/35(UNIX)
PENTAGON-TIP	2/26	T	H-316
RADC-MULTICS	0/18	S	H-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
RADC-TIP	2/18	T	Pluribus TIP
RADC-TOPS20	3/18	S	DEC-2040T(TOPS-20AN)
RADC-XPER	1/18	SV	VDH PDP-11/40(UNIX)
RAND-RCC	0/7	S	DEC-2060T(TOPS-20AN)
RAND-TIP	2/7	T	H-316
RAND-UNIX	3/7	S	PDP-11/34 -> VAX(UNIX)
ROCHESTER	1/18	S	VDH PDP-11/40(UNIX)
SANDIA	3/48	U	VDH DEC-1091(TOPS-20AN)
SCI-ICS	3/32	SV	VDH Foonly-2(TENEX)
SDAC-44	3/39	S	IBM-360/44(PS/44)
SDAC-CCP	0/39	U	CCP -> Pluribus
SDAC-NEP	2/39	U	IBM-360/40(DOS/360)
SDAC-UNIX	1/39	S	PDP-11/70(UNIX)
SRI-C3PO	1/51	S	PDP-11/34(ELF) -> PRNet
SRI-KA	0/51	S	DEC-10(TENEX)
SRI-KL	1/2	S	DEC-1090T(TOPS-20AN)
SRI-NSC11	3/2	U	PDP-11/40(EPOS, DOS)
SRI-R2D2	3/51	U	PDP-11/40(ELF) -> PRNet
SRI-TSC	0/2	S	PDP-11/40(UNIX)
SRI-UNIX	2/51	S	PDP-11/45(UNIX)
SRI-VIS11	2/2	U	PDP-11/10

COMPUTERS BY HOST

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
STL-TIP	2/61	T	Pluribus-TIP
SU-AI	0/11	S	DEC-1080(WAITS) -> DEC-10(P2SYS) -> PDP-11/45 -> SPS-41
SU-ISL	1/56	S	LS1-11 -> PDP-11/34(UNIX)
SU-SCORE	3/11	S	DEC-2060(TOPS-20)
SU-TIP	2/11	T	H-316
SUMEX-AIM	0/56	S	DEC-1077(TENEX) dual processor
TYCHO	0/57	U	PDP-11/34(UNIX)
UCLA-ATS	0/1	S	PDP-11/45(UNIX) -> Local Net
UCLA-CCN	1/1	S	IBM-370/3033(OS/MVT and TSO)
UCLA-SECURITY	2/1	S	PDP-11/45(UNIX) -> Local Net
UDEL	1/50	S	PDP-11/70(UNIX)
USAFA-GATEWAY	1/25	VDH	PDP-11/45(UNIX)
USC-ECL	3/23	S	DEC-10(TENEX)
USC-ISI	1/22	S	DEC-10(TENEX)
USC-ISIB	3/52	S	DEC-10(TENEX)
USC-ISIC	2/22	S	DEC-10(TENEX)
USC-ISID	3/22	S	DEC-2060T(TOPS-20AN)
USC-ISIE	1/52	S	DEC-1090T(TOPS-20AN)
USC-TIP	2/23	T	H-316
USGS1-TIP	2/68	T	Pluribus TIP
USGS2-TIP	2/69	T	Pluribus TIP
USGS3-TIP	2/70	T	Pluribus TIP
UTAH-11	0/4	U	PDP-11/45(UNIX) -> FPS-AP120B
UTAH-20	3/4	S	DEC-2040T(TOPS-20AN)
UTAH-TIP	2/4	T	H-316
UTEXAS	0/62	S	PDP-11/70(UNIX)
WHARTON	1/19	VDH	VDA -> DEC-10(TOPS-10)
WPAFB	0/47	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
WPAFB-AFAL	1/47	VDH	Pluribus(VDA) -> DEC-1077T(TOPS-10) dual processor
WPAFB-TIP	2/47	T	H-316
WRALC-TIP	2/64	T	H-316

ORGANIZED BY HOST ADDRESS

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/1	UCLA-ATS	S	PDP-11/45(UNIX) -> Local Net
1/1	UCLA-CCN	S	IBM-370/3033(OS/MVT and TSO)
2/1	UCLA-SECURITY	S	PDP-11/45(UNIX) -> Local Net
0/2	SRI-TSC	S	PDP-11/40(UNIX)
1/2	SRI-KL	S	DEC-1090T(TOPS-20AN)
2/2	SRI-VIS11	U	PDP-11/10
3/2	SRI-NSC11	U	PDP-11/40(EPOS,DOS)
0/3	NOSC-CC	S VDH	PDP-11/40(UNIX) -> UNIVAC-1110
1/3	NOSC-SPEL	S	Pluribus(PLI) -> PDP-11/70(UNIX-PWB)
2/3	LOGICON	U VDH	PDP-11/45(UNIX)
3/3	NWC	S VDH	PDP-11/40(UNIX) -> UNIVAC-1110
4/3	NPRDC-UNIX	S VDH	PDP-11/70(UNIX)
0/4	UTAH-11	U	PDP-11/45(UNIX) -> FPS-AP120B
2/4	UTAH-TIP	T	H-316
3/4	UTAH-20	S	DEC-2040T(TOPS-20AN)
0/5	BBN-TENEXE	S	DEC-10(TENEX)
1/5	BBN-INLAT	S U	PDP-11/40(Custom built)
2/5	BBN-PTIP	T	Pluribus TIP
3/5	BBN-TENEXA	S	DEC-2050T(TOPS-20AN)
0/6	MIT-MULTICS	S	H-6180(Multics)
1/6	MIT-DMS	S	DEC-10(ITS)
2/6	MIT-AI	S	DEC-10(ITS)-> PDP-11/20 -> Terminals
3/6	MIT-ML	S S	DEC-10(ITS)
0/7	RAND-RCC	S S	DEC-2060T(TOPS-20AN)
1/7	CHI	S VDH	MP-32-> MP-32A -> AP-90(SIGNAL)
2/7	RAND-TIP	T	H-316
3/7	RAND-UNIX	S	PDP-11/34 -> VAX(UNIX)
0/8	NRL	S	PDP-11/40(UNIX) -> TI-ASC(GPOS)
1/8	DTNSRDC	S VDH	PDP-11/40(UNIX) -> CDC-6400(NOS/BE)
2/8	NSWC-WO	S VDH	CDC-6500(NOS)
3/8	NADC	U VDH	PDP-11/40(ELF) -> CDC-6600/CYBER 175(KRONOS,NOS)
4/8	NSWC-DL	S VDH	PDP-11/40(ELF) -> CDC-6700
0/9	HARV-10	S	DEC-10(TOPS-10)
2/9	NUSC-NPT	S VDH	PDP-11/70(UNIX)
0/10	LL	S	IBM-370/168(VM/370)
2/10	LL-XN	S S	PDP-11/70(UNIX)
3/10	LL-11	S S	PDP-11/45(UNIX)
0/11	SU-AI	S	DEC-1080(WAITS) -> DEC-10(P2SYS) -> PDP-11/45 -> SPS-41
2/11	SU-TIP	T	H-316
3/11	SU-SCORE	S	DEC-2060(TOPS-20)
1/12	DTI	S	PDP-11/70(UNIX)
0/13	GUNTER-UNIX	S	PDP-11/35(UNIX)
2/13	GUNTER-TIP	T	H-316
0/14	CMU-10B	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
1/14	CMU-10A	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
2/14	CMU-10D	S S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
3/14	CMU-CMMP	S	5 PDP-11/20s and 11 PDP-11/40s(HYDRA) Multiprocessor
0/15	I4-TENEX	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s-> ILLIAC-IV(ACL)
2/15	I4B-TENEX	S	DEC-10(TENEX) -> ILLIAC-IV(ACL)
0/16	AMES-67	S	IBM-360/67(TSS/360)
2/16	AMES-TIP	T	H-316
3/16	AMES-11	U	PDP-11/45(RSX11M) -> PDP-11/10
0/17	MITRE	S	PDP-11/70(UNIX)
1/17	CTO-DDF	S VDH	PDP-11/70(UNIX)
2/17	MITRE-TIP	T	H-316

COMPUTERS BY HOST

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/18	RADC-MULTICS	S	H-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
1/18	RADC-XPER	S VDH	PDP-11/40(UNIX)
1/18	ROCHESTER	S VDH	PDP-11/40(UNIX)
2/18	RADC-TIP	T	Pluribus-TIP
3/18	RADC-TOPS20	S	DEC-2040T(TOPS-20AN)
0/19	NBS-10	S VDH	DEC-1050T(TOPS-10)
1/19	WHARTON	S VDH	VDA -> DEC-10(TOPS-10)
2/19	NBS-TIP	T	H-316
3/19	NBS-UNIX	S	PDP-11/45(UNIX) -> Inhouse network
0/20	CCTC	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
0/20	BCR-110	S	BCR
0/20	KDCB-DCEC	S U	LSI-11
2/20	DCEC-TIP	T	H-316
3/20	EDN-UNIX	S	PDP-11/70(UNIX)
3/20	BCR-111	S U	BCR -> PDP-11/70(UNIX)
3/20	KDCR-DCEC	S U	LSI-11
0/21	LLL-COMP	S S	PDP-11/70(UNIX)
1/21	LLL-MFE	S S	DEC-1070(TOPS-10)
2/21	LLL-S1	S S	S-1
0/22	ISI-SPEECH11	S U	PDP-11/45(EPOS, DOS) -> FPS AP-120B
1/22	USC-ISI	S S	DEC-10(TENEX)
2/22	USC-ISIC	S S	DEC-10(TENEX)
3/22	USC-ISID	S S	DEC-2060T(TOPS-20AN)
2/23	USC-TIP	T	H-316
3/23	USC-ECL	S S	DEC-10(TENEX)
0/24	HI-MULTICS	S S	H68/80(MULTICS)
2/24	GWC-TIP	T	H-316
0/25	NTIA-ITS	S S	PDP-11/40(UNIX)
1/25	USAFA-GATEWAY	S VDH	PDP-11/45(UNIX)
2/25	DOCB-TIP	T	H-316
2/26	PENTAGON-TIP	T	H-316
3/26	PENT-UNIX	S U	PDP-11/35(UNIX)
0/27	DCEX-0	S U	BCR -> various
1/27	DCEX-1	S U	BCR -> various
0/28	ARPA-DMS	S U	HP-3000(DMS)
2/28	ARPA-TIP	T	H-316
3/28	ARPA-XGP11	S U	PDP-11/40(ELF) -> Xerox Graphics Printer
0/29	BRL	S U	PDP-11/40(ANTS)
2/30	BBN-TESTIP	T	H-316
0/31	CCA-TENEX	S	DEC-10(TENEX, DATALANGUAGE) -> Tera-bit memory
1/31	CCA-SPEECH	S	PDP-11/40(ELF)
2/31	CCA-SDMS	S S	PDP-11/70(UNIX)
3/31	CCA-SIP	S S	PDP-11/40(SIP custom) -> SATNET
4/31	MIT-DEVMULTICS	S S	H-68/80(Multics)
0/32	PARC-MAXC	S S	MAXC(TENEX)
1/32	PARC-GATEWAY	S S	NOVA-800 -> Internal Net
2/32	PARC-MAXC2	S S	MAXC(TENEX)
3/32	SCI-ICS	S VDH	Foonly-2(TENEX)
0/33	NPS	S U	Pluribus(PLI) -> PDP-11/70(UNIX)
1/33	FNWC	U VDH	PDP-11/60(RSX11M) -> CDC-6500(SCOPE)
2/33	NPS-TIP	T	H-316
3/33	FNWC-SECURE	U VDH	Pluribus(PLI) -> PDP-11/34(RSX11M) -> CDC-6500(SCOPE)
0/34	LBL	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
1/34	LBL-UNIX	S	PDP-11/34(UNIX)
2/34	BERKELEY	S	PDP-11/70(UNIX)
0/35	NOSC-SECURE2	S U	Pluribus(PLI) -> DEC-10(TENEX)
1/35	NOSC-SDL	S VDH	PDP-11/40(UNIX)
2/35	ACCAT-TIP	T	Pluribus TIP

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
3/35	NOSC-SECURE3	U	Pluribus(PLI) -> PDP-11/70(UNIX) -> DEC-2040T(TOPS-20AN)
0/36	COINS-TAS	U	Pluribus (PLI) -> PDP-11/45(UNIX)
2/36	CINCPAC-TIP	T	H-316
0/37	DEC-2136	U	DEC-2060T(TOPS-20AN)
1/37	DEC-MARLBORO	S	DEC-2020T(TOPS-20AN)
0/38	BRAGG-PKT	U VDH	PDP-11/34(UNIX)
2/38	BRAGG-TIP	T	H-316
0/39	SDAC-CCP	U	CCP -> Pluribus
1/39	SDAC-UNIX	S	PDP-11/70(UNIX)
2/39	SDAC-NEP	S U	IBM-360/40(DOS/360)
3/39	SDAC-44	S	IBM-360/44(PS/44)
0/40	BBN-NCC	S U	H-316
2/40	NCC-TIP	T	H-316
3/40	BBN-GATEWAY	U	PDP-11/40(ELF) -> SATNET
0/41	NORSAR-40A	U	IBM-360/40(DOS)
1/41	NDRE	U VDH	NORD-10(SINTRAN-3)
2/41	NORSAR-TIP	T	H-316
3/41	NDRE-GATEWAY	U VDH	PDP-11/40(ELF) -> SATNET
0/42	LONDON	S	PDP-9 -> IBM-360/195s dual processor (OS-MVT and HASP) -> GEC-4080(GCOS) -> EPSS Net
1/42	LONDON-VDH	S VDH	PDP-9 -> EPSS -> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
2/42	LONDON-TIP	T	H-316
3/42	LONDON-GATEWAY	U	PDP-11/35(ELF) -> SATNET
0/43	OFFICE-1	S S	DEC-10(TENEX)
1/43	OFFICE-2	S S	DEC-10(TENEX)
2/43	OFFICE-3	S S	DEC-10(TENEX)
0/44	MIT-XX	S	DEC-2060T(TOPS-20AN)
1/44	LL-ASG	S VDH	PDP-11/50(UNIX)
2/44	MIT-TIP	T	H-316
3/44	MIT-MC	S	DEC-1080(ITS)
0/45	MOFFETT-ARC	S	DEC-10(TENEX)
1/45	MOFFETT-SUBNET	U U	Pluribus(PLI) -> DEC-10(TENEX)
0/46	COLLINS-PR	U T	PDP-11/34(RT-11 3B)
2/46	COLLINS-TIP	T	H-316
0/47	WPAFB	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
1/47	WPAFB-AFAL	S VDH	Pluribus(VDA) -> DEC-1077T(TOPS-10) dual processor
2/47	WPAFB-TIP	T	H-316
0/48	AFWL	S	PDP-11/50(RSX-11M + SAMNET NFE) -> CYBER-176(NOS/BE) -> Local net and SAMNET -> 3 CYBER-203s
1/48	ASL	U VDH	PDP-11/10(ELF)
2/48	AFWL-TIP	T	MLC -> CDC-2550(CCP) -> CDC-6600(NOS/BE) -> Local net and SAMNET
3/48	SANDIA	U VDH	DEC-1091(TOPS-20AN)
0/49	BBN-TENEXB	S	DEC-10(TENEX)
1/49	BBN-TENEXD	S	DEC-1090T(TOPS-20AN)
2/49	BBN-SPEECH-11	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B
3/49	BBN-TENEX	S	DEC-10(TENEX)
1/50	UDEL	S VDH	PDP-11/70(UNIX)
2/50	DARCOM-TIP	T	H-316
0/51	SRI-KA	S	DEC-10(TENEX)
1/51	SRI-C3PO	S U	PDP-11/34(ELF) -> PRNet
2/51	SRI-UNIX	S	PDP-11/45(UNIX)
3/51	SRI-R2D2	S U	PDP-11/40(ELF) -> PRNet
0/52	ISI-XGP11	U	PDP-11/40(ELF) -> Xerox Graphics Printer

COMPUTERS BY HOST

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
1/52	USC-ISIE	S	DEC-1090T(TOPS-20AN)
2/52	BCR-109	S	BCR -> DEC-10(TENEX)
3/52	USC-ISIB	S	DEC-10(TENEX)
0/53	EGLIN	S	PDP-11/45(RSX11M) -> CDC-6600(NOS/BE)
1/53	NCSC	S	PDP-11/40(UNIX) -> B-5500(MCP XVI)
2/53	EGLIN-DEV	S	PDP-11/60(RSX11M)
3/53	MARTIN	S	PDP-11/45(RSX11M)
0/54	CIT-20	S	DEC-2060(TOPS-20)
1/54	CIT-11	S	PDP-11/34(UNIX)
2/54	CIT-3032	S	IBM-3032
0/55	ANL	S	VARIAN-73 -> IBM-360/75 -> IBM-370/195(OS/MVT, ASP) -> 2 IBM-3033s
0/56	SUMEX-AIM	S	DEC-1077(TENEX) dual processor
1/56	SU-ISL	S	LS1-11 -> PDP-11/34(UNIX)
0/57	TYCHO	S	PDP-11/34(UNIX)
1/57	COINS-GATEWAY	S	Pluribus(PLI) -> PDP-11/34(UNIX)
0/58	NYU	S	PDP-11/40(ELF) -> CDC-6600(NOS) -> VAX-11/780(VMS)
1/58	BNL	S	VDH PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE, INTERCOM) -> CDC-7600(SCOPE)
3/58	NUSC	U	VDH PDP-11/40(ELF) -> VAX 11/780
0/59	ETAC	U	PDP-11/45(ELF)
2/60	CORADCOM-TIP	T	H-316
2/61	STL-TIP	T	Pluribus-TIP
0/62	UTEXAS	S	PDP-11/70(UNIX)
1/62	BCR-108	S	BCR
0/63	BBN-UNIX	S	Pluribus(PLI) -> PDP-11/70(UNIX)
1/63	BBN-SAC	S	PDP-11/34
2/64	WRALC-TIP	T	H-316
2/67	HQAFC-TIP	T	Pluribus TIP
2/68	USGS1-TIP	T	Pluribus TIP
2/69	USGS2-TIP	T	Pluribus TIP
2/70	USGS3-TIP	T	Pluribus TIP
0/71	BBN-TENEXF	S	DEC-2040T(TOPS-20AN)

COMPUTERS BY MANUFACTURER

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
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BOLT BERANEK AND NEWMAN [BBN]

PLURIBUS	PLI	BBN-UNIX	0/63	Private Line Interface
PLURIBUS	PLI	COINS-GATEWAY	1/57	Private Line Interface
PLURIBUS	PLI	COINS-TAS	0/36	Private Line Interface
PLURIBUS	PLI	FNWC-SECURE	3/33	Private Line Interface
PLURIBUS	PLI	MOFFETT- SUBNET	1/45	Private Line Interface
PLURIBUS	PLI	NOSC-SECURE2	0/35	Private Line Interface
PLURIBUS	PLI	NOSC-SECURE3	3/35	Private Line Interface
PLURIBUS	PLI	NOSC-SPEL	1/3	Private Line Interface
PLURIBUS	PLI	NPS	0/33	Private Line Interface
PLURIBUS	PLI	SDAC-CCP	0/39	Seismic data processor
PLURIBUS	VDA	WHARTON	1/19	Very distant host adapter
PLURIBUS	VDA	WPAFB-AFAL	1/47	Very distant host adapter

The following Pluribus-TIPs are now or soon will be on the ARPANET

ACCAT-TIP	2/35	BBN-PTIP	2/5	HQAFC-TIP 2/67
RADC-TIP	2/18	STL-TIP	2/61	USGS1-TIP 2/68
USGS2-TIP	2/69	USGS3-TIP	2/70	

BURROUGHS

B-5500	MCP	NCSC	1/53	Principal, USER
B-6700		I4-TENEX	0/15	Peripheral processor
ILLIAC-IV	ACL	I4-TENEX	0/15	Principal, SERVER
ILLIAC-IV	ACL	I4B-TENEX	2/15	Principal, SERVER

CONTROL DATA CORPORATION [CDC]

CDC-2550	CCP	AFWL-TIP	2/48	
CDC-6400	BKY	LBL	0/34	Communications controller
CDC-6400	NOS/BE	DTNSRDC	1/8	Principal, SERVER
CDC-6500	NOS	NSWC-WO	2/8	Principal, Ltd SERVER
CDC-6500	SCOPE	FNWC	1/33	Principal, USER
CDC-6500	SCOPE	FNWC-SECURE	3/33	Principal, USER
CDC-6600	BKY	LBL	0/34	Principal, SERVER
CDC-6600	KRONOS/NOS	NADC	3/8	Principal, USER
CDC-6600	NOS	NYU	0/58	Principal, SERVER
CDC-6600	NOS/BE	AFWL-TIP	2/48	Principal, Ltd SERVER
CDC-6600	NOS/BE	EGLIN	0/53	Principal, Ltd SERVER
CDC-6600	SCOPE	AFWL	0/48	Principal, Ltd SERVER
CDC-6600	SCOPE	WPAFB	0/47	Principal, Ltd SERVER
CDC-6600	SCOPE,	LONDON-VDH	1/42	Principal, Ltd SERVER
CDC-6600s	INTERCOM			
CDC-6600s	SCOPE,	BNL	1/58	Principal, SERVER
CDC-6700	INTERCOM			
CDC-6700		NSWC-DL	4/8	Principal, Ltd SERVER
CDC-7600	BKY	LBL	0/34	Principal, SERVER
CDC-7600	SCOPE	BNL	1/58	Principal, SERVER
CDC-7600	SCOPE,	LONDON-VDH	1/42	Principal, Ltd SERVER
CYBER-176	INTERCOM			
CYBER-176	SCOPE	AFWL	0/48	Principal, Ltd SERVER
CYBER-203	SCOPE	AFWL	0/48	Principal, Ltd SERVER

COMPUTERS BY MFR

MANUFACTURER	COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
CULLER HARRISON					
AP-90	SIGNAL		CHI	1/7	Speech processor
FPS-AP-120B			BBN-SPEECH-11	2/49	Speech processor
FPS-AP-120B			ISI-SPEECH11	0/22	Speech processor
FPS-AP-120B			UTAH-11	0/4	Speech processor
MP-32			CHI	1/7	Communication controller
MP-32A			CHI	1/7	Peripheral controller
DEC 9					
PDP-9			LONDON	0/42	Communication controller
			LONDON-VDH	1/42	
DEC 10					
DEC-10	ITS		MIT-AI	2/6	Principal, SERVER
DEC-10	ITS		MIT-DMS	1/6	Principal, SERVER
DEC-10	ITS		MIT-ML	3/6	Principal, Ltd SERVER
DEC-10	P2SYS		SU-AI	0/11	Principal, Ltd SERVER
DEC-10	TENEX		BBN-TENEX	3/49	Principal, SERVER
DEC-10	TENEX		BBN-TENEXB	0/49	Principal, SERVER
DEC-10	TENEX		BBN-TENEXE	0/5	Principal, Ltd SERVER
DEC-10	TENEX		BCR-109	2/52	Principal, Ltd SERVER
DEC-10	TENEX		I4-TENEX	0/15	Principal, SERVER
DEC-10	TENEX		I4B-TENEX	2/15	Principal, Ltd SERVER
DEC-10	TENEX		MOFFETT-ARC	0/45	Principal, Ltd. SERVER
DEC-10	TENEX		MOFFETT-SUBNET	1/45	Principal, Ltd. SERVER
DEC-10	TENEX		NOSC-SECURE2	0/35	Principal, Ltd. SERVER
DEC-10	TENEX		OFFICE-1	0/43	Principal, SERVER
DEC-10	TENEX		OFFICE-2	1/43	Principal, SERVER
DEC-10	TENEX		OFFICE-3	2/43	Principal, SERVER
DEC-10	TENEX		SRI-KA	0/51	Principal, SERVER
DEC-10	TENEX		USC-ECL	3/23	Principal, SERVER
DEC-10	TENEX		USC-ISI	1/22	Principal, SERVER
DEC-10	TENEX		USC-ISIB	3/52	Principal, Ltd SERVER
DEC-10	TENEX		USC-ISIC	2/22	Principal, SERVER
DEC-10	TENEX,		CCA-TENEX	0/31	Principal, SERVER
DATA LANGUAGE					
DEC-10	TOPS-10		HARV-10	0/9	Principal, Ltd SERVER
DEC-10	TOPS-10		WHARTON	1/19	Principal, Ltd SERVER
DEC-1050T	TOPS-10		CMU-10B	0/14	Principal, Ltd SERVER
DEC-1050T	TOPS-10		CMU-10D	2/14	Principal, Ltd SERVER
DEC-1050T	TOPS-10		NBS-10	0/19	Principal, Ltd SERVER
DEC-1070T	TOPS-10		LLL-MFE	1/21	Principal, Ltd SERVER
DEC-1077T	TENEX		SUMEX-AIM	0/56	Principal, SERVER
DEC-1077T	TOPS-10		WPAFB-AFAL	1/47	Principal, Ltd SERVER
DEC-1080T	ITS		MIT-MC	3/44	Principal, Ltd SERVER
DEC-1080T	TOPS-10		CMU-10A	1/14	Principal, Ltd SERVER
DEC-1080T	WAITS		SU-AI	0/11	Principal, SERVER
DEC-1090T	TOPS-20AN		BBN-TENEXD	1/49	Principal, Ltd SERVER
DEC-1090T	TOPS-20AN		SRI-KL	1/2	Principal, SERVER
DEC-1090T	TOPS-20AN		USC-ISIE	1/52	Principal, SERVER
DEC 11					
LSI-11			KDCB-DCEC	0/20	
LSI-11			KDCR-DCEC	3/20	
LSI-11			SU-ISL	1/56	
PDP-11			CMU-10A	1/14	Communication controller
			CMU-10B	0/14	
			CMU-10D	2/14	
PDP-11	UNIX		NPS	0/33	Principal, Ltd Server

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
PDP-11	UNIX	NSA	0/57	Principal, Ltd Server
PDP-11s		I4-TENEX	0/15	Communication controller
PDP-11/10		AMES-11	3/16	I/O controller
PDP-11/10		SRI-VIS11	2/2	Vision research
PDP-11/10	ELF	ASL	1/48	Magtape mass data dump
PDP-11/20		MIT-AI	2/6	Peripheral processor
PDP-11/20s	HYDRA	CMU-CMMP	3/14	Multiprocessor, SERVER
PDP-11/34		BBN-SAC	1/63	Satellite gateway
PDP-11/34	ELF	BNL	1/58	Communication controller
PDP-11/34	ELF	SRI-C3PO	1/51	Central controller
PDP-11/34	RSX11M	FNWC-SECURE	3/33	Communication controller
PDP-11/34	RT113B	COLLINS-PR	0/46	Central controller
PDP-11/34	UNIX	BRAGG-PKT	0/38	Central controller
PDP-11/34	UNIX	CIT-11	1/54	Central controller
PDP-11/34	UNIX	COINS-GATEWAY	1/57	Gateway machine
PDP-11/34	UNIX	LBL-UNIX	1/34	Principal, Ltd. SERVER
PDP-11/34	UNIX	RAND-UNIX	3/7	Communication controller
PDP-11/34	UNIX	SU-ISL	1/56	Principal, Ltd. SERVER
PDP-11/34	UNIX	TYCHO	0/57	Principal, USER
PDP-11/35	ELF	LONDON-GATEWAY	3/42	Satellite gateway
PDP-11/35	UNIX	GUNTER-UNIX	0/13	Principal, Ltd. SERVER
PDP-11/35	UNIX	PENT-UNIX	3/26	Principal, USER
PDP-11/40	ANTS	BRL	0/29	Terminal concentrator
PDP-11/40	Custom	BBN-INLAT	1/5	Intelligent terminal
PDP-11/40	Custom	CCA-SIP	3/31	Seismic input processor
PDP-11/40	ELF	ARPA-XGP11	3/28	Peripheral processor
PDP-11/40	ELF	BBN-GATEWAY	3/40	Gateway machine
PDP-11/40	ELF	CCA-SPEECH	1/31	Speech understanding
PDP-11/40	ELF	ISI-XGP11	0/52	Peripheral processor
PDP-11/40	ELF	NADC	3/8	Communication controller
PDP-11/40	ELF	NDRE-GATEWAY	3/41	Satellite gateway
PDP-11/40	ELF	NSWC-DL	4/8	Communication controller
PDP-11/40	ELF	NUSC	3/58	Communication controller
PDP-11/40	ELF	NYU	0/58	Communication controller
PDP-11/40	ELF	SRI-R2D2	3/51	Central controller
PDP-11/40	EPOS, DOS	SRI-NSC11	3/2	Speech compression
PDP-11/40	RT11	BBN-SPEECH-11	2/49	Speech compression
PDP-11/40	UNIX	NCSC	1/53	Communication controller
PDP-11/40	UNIX	NOSC-CC	0/3	Communication controller
PDP-11/40	UNIX	NOSC-SDL	1/35	Principal, Ltd. SERVER
PDP-11/40	UNIX	NRL	0/8	Communication controller
PDP-11/40	UNIX	NTIA-ITS	0/25	Principal, Ltd. SERVER
PDP-11/40	UNIX	NWC	3/3	Communication controller
PDP-11/40	UNIX	RADC-XPER	1/18	Principal, Ltd. SERVER
PDP-11/40	UNIX	ROCHESTER	1/18	Principal, Ltd. SERVER
PDP-11/40	UNIX	SRI-TSC	0/2	Principal, Ltd. SERVER
PDP-11/40	UNIX	SRI-UNIX	2/51	Principal, Ltd. SERVER
PDP-11/40s	HYDRA	CMU-CMMP	3/14	Multiprocessor, SERVER
PDP-11/45		SU-AI	0/11	Speech processor
PDP-11/45	ELF	ETAC	0/59	Terminal concentrator
PDP-11/45	EPOS, DOS	ISI-SPEECH11	0/22	Speech compression
PDP-11/45	RSX11M	AMES-11	3/16	Communication controller
PDP-11/45	RSX11M	EGLIN	0/53	Communication controller
PDP-11/45	RSX11M	MARTIN	3/53	
PDP-11/45	RSX11M	RADC-MULTICS	0/18	Satellite gateway
PDP-11/45	UNIX	COINS-TAS	0/36	
PDP-11/45	UNIX	DTNSRDC	1/8	Communication controller
PDP-11/45	UNIX	LL-11	3/10	Speech compression
PDP-11/45	UNIX	LOGICON	2/3	Principal, USER
PDP-11/45	UNIX	NBS-UNIX	3/19	Gateway machine
PDP-11/45	UNIX	UCLA-ATS	0/1	Network analysis and modeling
PDP-11/45	UNIX	UCLA-SECURITY	2/1	Principal, Ltd SERVER
PDP-11/45	UNIX	USAFA-GATEWAY	1/25	Satellite gateway
PDP-11/45	UNIX	UTAH-11	0/4	Speech research
PDP-11/50	RSX11M	AFWL	0/48	Communication controller

COMPUTERS BY MFR

MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
PDP-11/50	RSX11M	WPAFB	0/47	Communication controller
PDP-11/50	UNIX	LL-ASG	1/44	Principal, Ltd SERVER
PDP-11/60	RSX11M	EGLIN-DEV	2/53	
PDP-11/60	RSX11M	FNWC	1/33	Communication controller
PDP-11/70	UNIX	BBN-UNIX	0/63	Principal, Ltd SERVER
PDP-11/70	UNIX	BCR-111	3/20	
PDP-11/70	UNIX	BERKELEY	2/34	Principal, Ltd SERVER
PDP-11/70	UNIX	CCA-SDMS	2/31	Principal, Ltd SERVER
PDP-11/70	UNIX	CCTC	0/20	Communication controller
PDP-11/70	UNIX	CTO-DDF	1/17	Principal, Ltd SERVER
PDP-11/70	UNIX	DTI	1/12	Principal, Ltd SERVER
PDP-11/70	UNIX	EDN-UNIX	3/20	Principal, Ltd SERVER
PDP-11/70	UNIX	LL-XN	2/10	Principal, Ltd SERVER
PDP-11/70	UNIX	LLL-COMP	0/21	Principal, Ltd SERVER
PDP-11/70	UNIX	MITRE	0/17	Principal, Ltd SERVER
PDP-11/70	UNIX	NOSC-SECURE3	3/35	Principal, Ltd SERVER
PDP-11/70	UNIX	NPRDC-UNIX	4/3	Principal, Ltd SERVER
PDP-11/70	UNIX	NPRDC-UNIX	4/3	Principal, Ltd SERVER
PDP-11/70	UNIX	NPS	0/33	Principal, Ltd SERVER
PDP-11/70	UNIX	NUSC-NPT	2/9	Principal, Ltd SERVER
PDP-11/70	UNIX	SDAC-UNIX	1/39	Principal, Ltd SERVER
PDP-11/70	UNIX	UDEL	1/50	Principal, Ltd SERVER
PDP-11/70	UNIX	UTEXAS	0/62	Principal, Ltd SERVER
PDP-11/70	UNIX-PWB	NOSC-SPEL	1/3	Principal, Ltd SERVER

DEC VAX

VAX-11/780	VMS	NUSC	3/58	Principal, USER
VAX-11/780	VMS	NYU	0/58	Principal, Ltd SERVER
VAX-11/780	UNIX	RAND-UNIX	3/7	Principal, Ltd SERVER

DEC 20

DEC-2020T	TOPS-20AN	DEC-MARLBORO	1/37	Principal, Ltd SERVER
DEC-2040T	TOPS-20AN	BBN-TENEXF	0/71	Principal, Ltd SERVER
DEC-2040T	TOPS-20AN	NOSC-SECURE3	3/35	Principal, Ltd SERVER
DEC-2040T	TOPS-20AN	RADC-TOPS20	3/18	Principal, Ltd SERVER
DEC-2040T	TOPS-20AN	UTAH-20	3/4	Principal, Ltd SERVER
DEC-2050T	TOPS-20AN	BBN-TENEXA	3/5	Principal, Ltd SERVER
DEC-2060	TOPS-20	CIT-20	0/54	Principal, Ltd SERVER
DEC-2060	TOPS-20	SU-SCORE	3/11	Principal, SERVER
DEC-2060T	TOPS-20AN	DEC-2136	0/37	Principal, USER
DEC-2060T	TOPS-20AN	MIT-XX	0/44	Principal, Ltd SERVER
DEC-2060T	TOPS-20AN	RAND-RCC	0/7	Principal, Ltd SERVER
DEC-2060T	TOPS-20AN	USC-ISID	3/22	Principal, SERVER

DATA GENERAL

NOVA-800		PARC-GATEWAY	1/32	PARC Gateway machine
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HEWLETT PACKARD

HP-3000	DMS	ARPA-DMS	0/28	Principal, Ltd SERVER
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MANUFACTURER

COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
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HONEYWELL

GEC-4080	GCOS	LONDON	0/42	Principal, USER
H-316		BBN-NCC	0/40	NCC prototype
H-6000	GCOS	CCTC	0/20	Principal, Ltd SERVER
H-6180	MULTICS	MIT-MULTICS	0/6	Principal, SERVER
H-6180	MULTICS	RADC-MULTICS	0/18	Principal, Ltd SERVER
H-68/80	MULTICS	HI-MULTICS	0/24	Principal, Ltd SERVER
H-68/80	MULTICS	MIT- DEVMULTICS	4/31	Principal, Ltd SERVER

The following H-316 TIPS are on the ARPANET:

AFWL-TIP	2/48	AMES-TIP	2/16	ARPA-TIP	2/28
BBN-TESTIP	2/30	BRAGG-TIP	2/38	CINCPAC-TIP	2/36
COLLINS-TIP	2/46	CORADCOM-TIP	2/60	DARCOM-TIP	2/50
DCEC-TIP	2/20	DOCB-TIP	2/25	GUNTER-TIP	2/13
GWC-TIP	2/24	LONDON-TIP	2/42	MIT-TIP	2/44
MITRE-TIP	2/17	NBS-TIP	2/19	NCC-TIP	2/40
NORSAR-TIP	2/41	NPS-TIP	2/33	PENTAGON-TIP	2/26
RAND-TIP	2/7	SU-TIP	2/11	USC-TIP	2/23
UTAH-TIP	2/4	WPAFB-TIP	2/47	WRALC-TIP	2/64

IBM 3000

3032		CIT-3032	2/54	Principal, Ltd SERVER
3033s		ANL	0/55	Principal, SERVER
370/3033 OS-MVT, TSO		UCLA-CCN	1/1	Principal, SERVER

IBM 360

360/40	DOS	NORSAR-40A	0/41	Principal, USER
360/40	DOS/360	SDAC-NEP	2/39	Principal, USER
360/44	PS/44	SDAC-44	3/39	Principal, Ltd SERVER
360/67	TSS/360	AMES-67	0/16	Principal, SERVER
360/75		ANL	0/55	Principal, SERVER
360/195	OS-MVT, HASP	LONDON	0/42	Principal, SERVER

IBM 370

370/168	VM/370	LL	0/10	Principal, Ltd SERVER
370/195	OS-MVT, ASP	ANL	0/55	Principal, SERVER

SPS

SPS-41	EPOS	BBN-SPEECH-11	2/49	Speech Processor
SPS-41	DOS	SU-AI	0/11	Speech Processor

UNIVAC

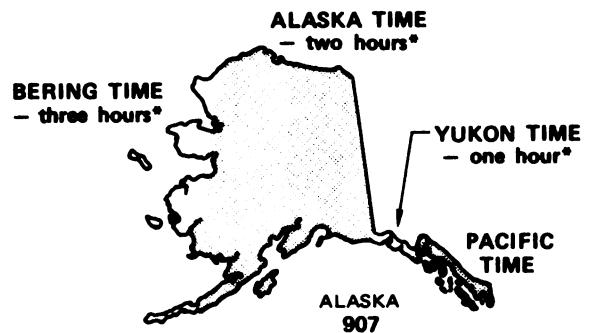
1110		NOSC-CC	0/3	Principal, Ltd SERVER
1110		NWC	3/3	Principal, Ltd SERVER

VARIAN

73		ANL	0/55	Communication controller
----	--	-----	------	--------------------------

COMPUTERS BY MFR

MANUFACTURER	COMPUTER	OP-SYS	HOST NAME	ADDR. (Dec)	STATUS
XEROX					
	MAXC	TENEX	PARC-MAXC	0/32	Principal, Ltd SERVER
	MAXC	TENEX	PARC-MAXC2	2/32	Principal, Ltd SERVER
OTHER					
BCR			BCR-108	1/62	Encryption
BCR			BCR-109	2/52	Encryption
BCR			BCR-110	0/20	Encryption
BCR			BCR-111	3/20	Encryption
BCR			DCEX-0	0/27	Encryption
BCR			DCEX-1	1/27	Encryption
CCP			SDAC-CCP	0/39	
FOONLEY-2	TENEX		SCI-ICS	3/32	Principal, Ltd. SERVER
ICL-4/72			LONDON-VDH	1/42	Principal, Ltd. SERVER
NORD-10	SINTRAN-3		NDRE	1/41	Principal, USER
S-1			LLL-S1	2/21	Principal, Ltd. SERVER
STARAN-1000P			RADC-MULTICS	0/18	Satellite gateway
TI-ASC	GPOS		NRL	0/8	Principal, Ltd. SERVER



U.S. TIME ZONES AND AREA CODES

PACIFIC TIME

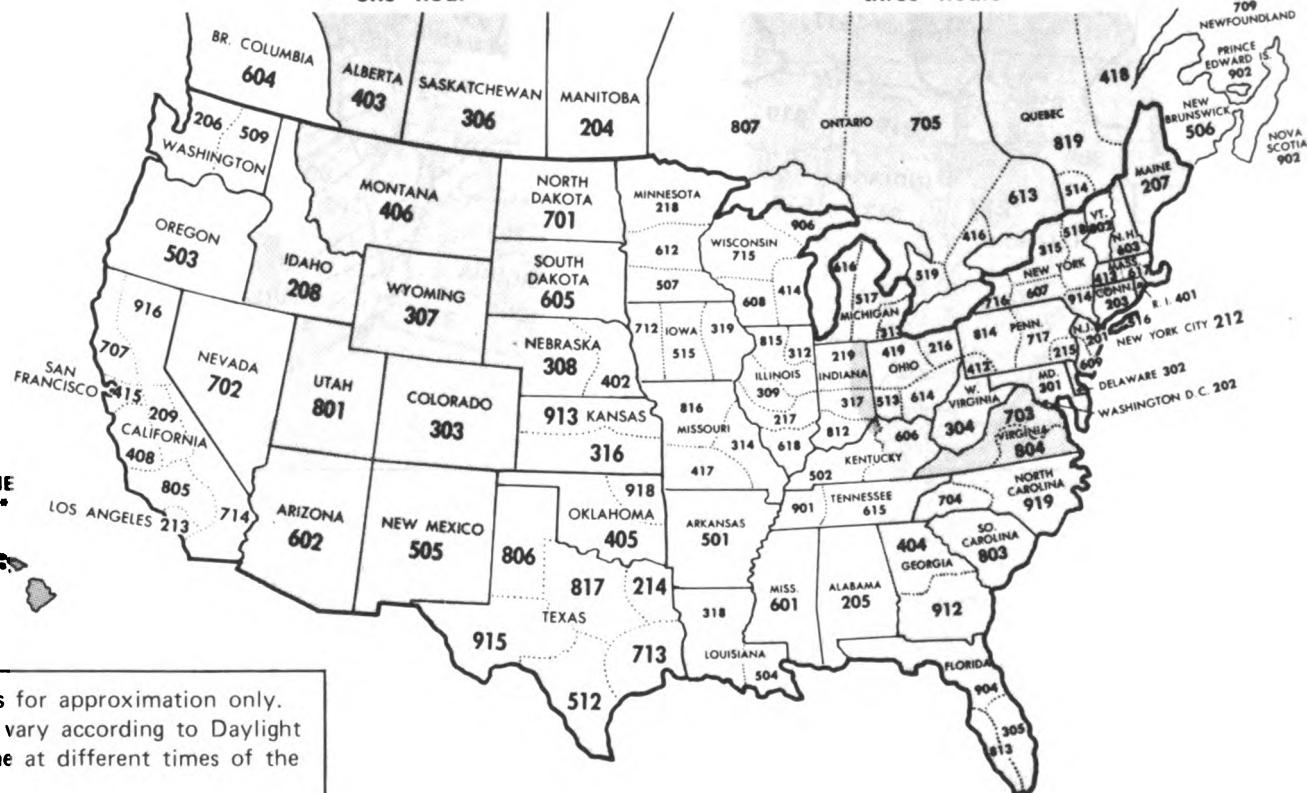
MOUNTAIN TIME

CENTRAL TIME
+ two hours*

EASTERN TIME
+ three hours*

ATLANTIC TIME
+ four hours*

HAWAII TIME
- two hours*



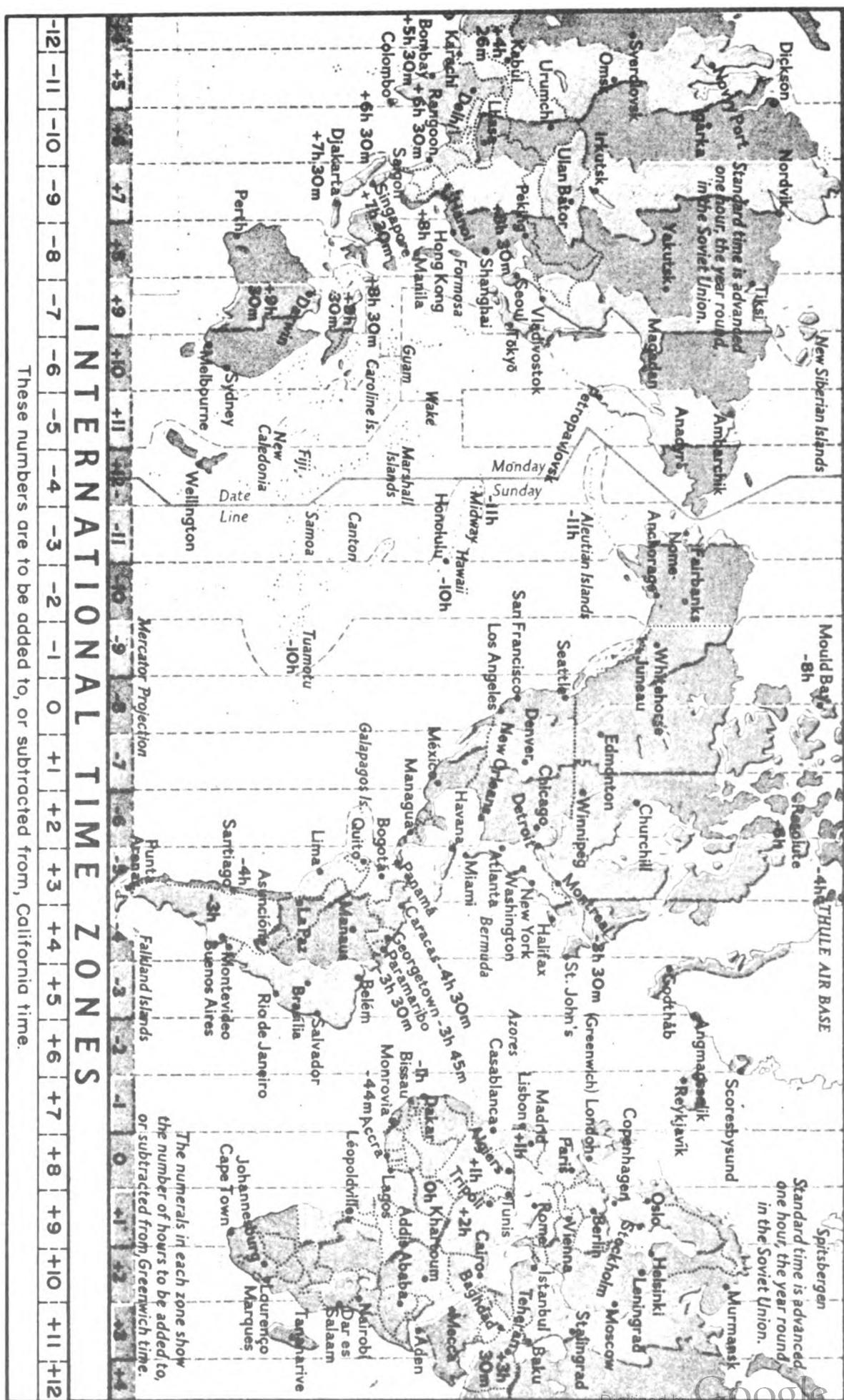
*Time zones for approximation only.
Hours will vary according to Daylight
Saving Time at different times of the
year.

EASTERN U.S. AREA CODES

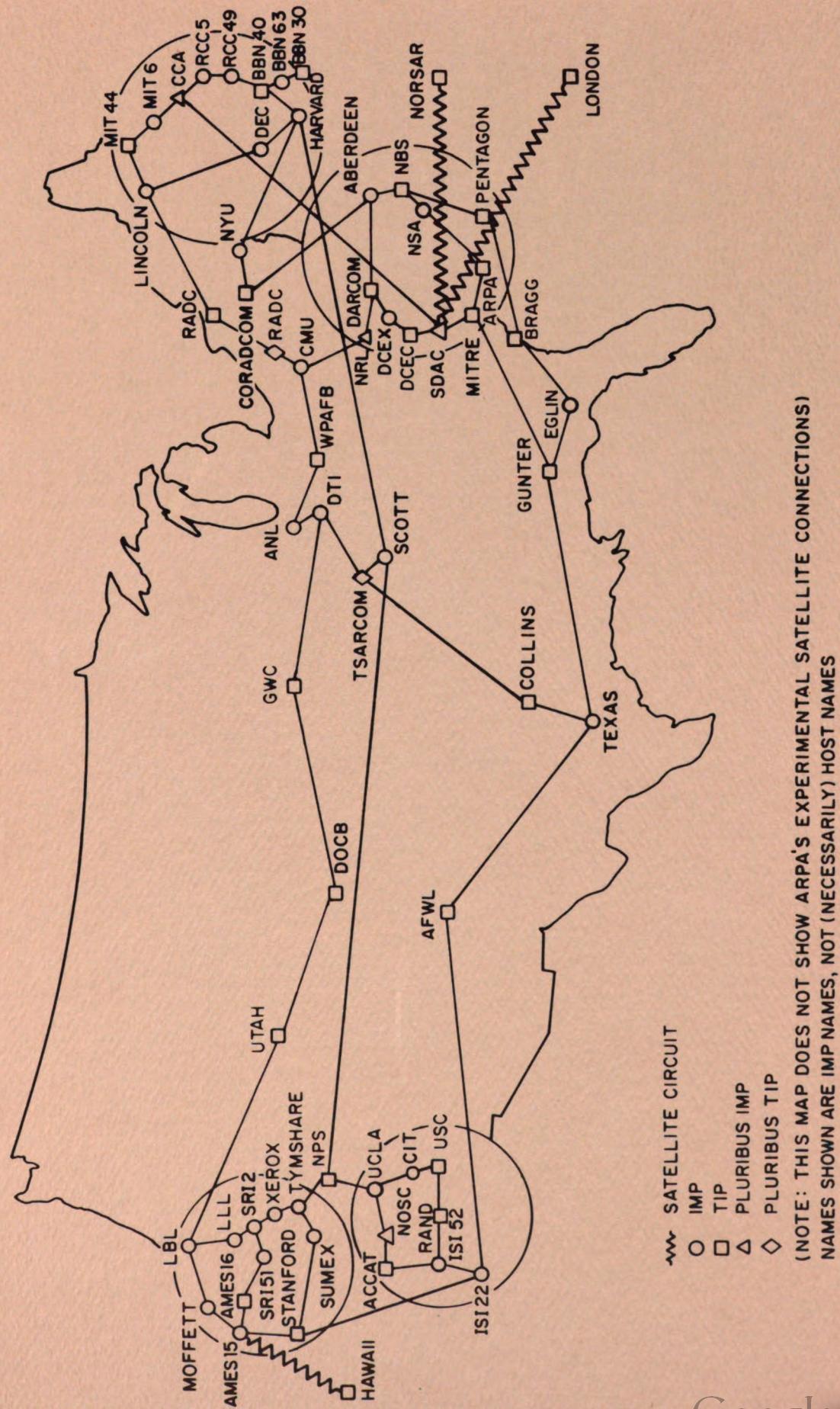


STANDARD STATE ABBREVIATIONS

AL Alabama	KY Kentucky	ND North Dakota
AK Alaska	LA Louisiana	OH Ohio
AZ Arizona	ME Maine	OK Oklahoma
AR Arkansas	MD Maryland	OR Oregon
CA California	MA Massachusetts	PA Pennsylvania
CO Colorado	MI Michigan	RI Rhode Island
CT Connecticut	MN Minnesota	SC South Carolina
DE Delaware	MS Mississippi	SD South Dakota
DC District of Columbia	MO Missouri	TN Tennessee
FL Florida	MT Montana	TX Texas
GA Georgia	NE Nebraska	UT Utah
HI Hawaii	NV Nevada	VT Vermont
ID Idaho	NH New Hampshire	VA Virginia
IL Illinois	NJ New Jersey	WA Washington
IN Indiana	NM New Mexico	WV West Virginia
IA Iowa	NY New York	WI Wisconsin
KS Kansas	NC North Carolina	WY Wyoming



ARPANET GEOGRAPHIC MAP, SEPTEMBER 1979



FREQUENTLY CALLED NUMBERS

Name

Phone

Name

Phone

U393,5
A17

NIC 48000

ARPANET DIRECTORY



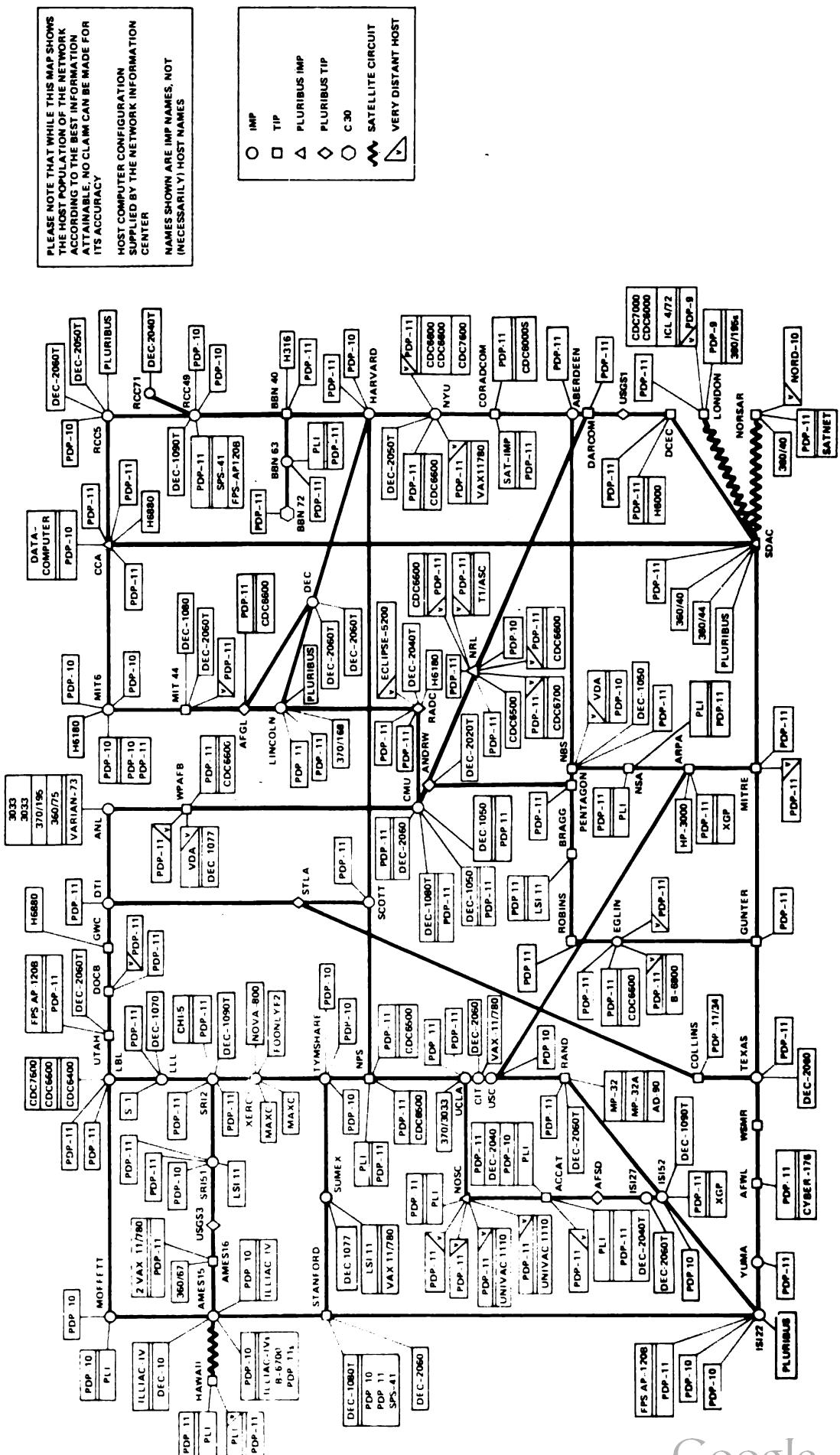
NOVEMBER 1980

STANFORD UNIVERSITY
OCT 1991
STACKS
LIBRARY

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On Contract No. DCA 200-C-641

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SRI International
Menlo Park, California 94025
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ARPA NET LOGICAL MAP, DECEMBER 1980



ARPANET DIRECTORY

CONTENTS

Logical Map	Inside Front Cover
Table of Contents	i
Calendars - 1776 to 2000	ii
Introduction	1
NIC Information.....	3
ARPANET Information	7
General Contacts.....	21
Network Sponsors	23
Network Liaison.....	25
Individuals	29
Individuals Network Addresses.....	275
Host Acronyms	323
Associate Acronyms.....	331
Hosts and Associates	339
Host Addresses	351
Computers by Host Configuration	355
Computers by Manufacturer	365
Hosts by Location	371
U.S. Time Zones and Area Codes	373
Eastern U.S. Area Codes	374
Geographic Map	Inside Back Cover

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CALENDARS - 1776 TO 2000

I N D E X

1776.	9	1801.	5	1826.	1	1851.	4	1876.	14	1901.	3	1926.	6	1951.	2	1976.	12
1777...	4	1802.	6	1827.	2	1852.	12	1877...	2	1902.	4	1927.	7	1952.	10	1977...	7
1778.	5	1803.	7	1828.	10	1853.	7	1878.	3	1903.	5	1928.	8	1953.	5	1978.	1
1779.	6	1804.	8	1829.	5	1854.	1	1879.	4	1904.	13	1929.	3	1954.	6	1979...	2
1780.	2	1805.	3	1830.	6	1855.	2	1880.	12	1905.	1	1930.	4	1955.	7	1980.	10
1781.	2	1806.	4	1831.	7	1856.	10	1881.	7	1906.	2	1931.	5	1956.	8	1981.	5
1782.	3	1807.	5	1832.	8	1857.	5	1882.	1	1907.	3	1932.	13	1957.	3	1982.	6
1783.	4	1808.	13	1833.	3	1858.	6	1883.	2	1908.	11	1933.	1	1958.	4	1983.	7
1784.	12	1809.	1	1834.	4	1859.	7	1884.	10	1909.	6	1934.	2	1959.	5	1984.	8
1785.	7	1810.	2	1835.	5	1860.	8	1885.	5	1910.	7	1935.	3	1960.	13	1985.	3
1786.	1	1811.	3	1836.	13	1861.	3	1886.	6	1911.	1	1936.	11	1961.	1	1986.	4
1787.	2	1812.	11	1837.	1	1862.	4	1887.	7	1912.	9	1937.	6	1962.	2	1987.	5
1788.	10	1813.	6	1838.	2	1863.	5	1888.	8	1913.	4	1938.	7	1963.	3	1988.	13
1789.	5	1814.	7	1839.	3	1864.	13	1889.	3	1914.	5	1939.	1	1964.	11	1989.	.1
1790.	6	1815.	1	1840.	11	1865.	1	1890.	4	1915.	6	1940.	9	1965.	6	1990.	2
1791.	7	1816.	9	1841.	6	1866.	2	1891.	5	1916.	14	1941.	4	1966.	7	1991.	.3
1792.	8	1817.	4	1842.	7	1867.	3	1892.	13	1917.	2	1942.	5	1967.	1	1992.	11
1793.	3	1818.	5	1843.	1	1868.	11	1893.	1	1918.	3	1943.	6	1968.	9	1993.	.6
1794.	4	1819.	6	1844.	9	1869.	6	1894.	2	1919.	4	1944.	14	1969.	4	1994.	.7
1795.	5	1820.	14	1845.	4	1870.	7	1895.	3	1920.	12	1945.	2	1970.	5	1995.	.1
1796.	13	1821.	2	1846.	5	1871.	1	1896.	11	1921.	7	1946.	3	1971.	6	1996.	.9
1797.	1	1822.	3	1847.	6	1872.	9	1897.	6	1922.	1	1947.	4	1972.	14	1997.	.4
1798.	2	1823.	4	1848.	14	1873.	4	1898.	7	1923.	2	1948.	12	1973.	2	1998.	.5
1799.	3	1824.	12	1849.	2	1874.	5	1899.	1	1924.	10	1949.	7	1974.	3	1999.	.6
1800.	4	1825.	7	1850.	3	1875.	6	1900.	2	1925.	5	1950.	11	1975.	4	2000.	14

DIRECTIONS FOR USE

Look for the year you want in the index at left. The number opposite each year is the number of the calendar to use for that year.

1

JANUARY					MAY					SEPTEMBER					
S	M	T	W	T	F	S	M	T	W	F	S	M	T	W	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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29	30	31													

FEBRUARY					JUNE					OCTOBER					
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29	30	31													

MARCH					JULY					NOVEMBER					
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29	30	31													

2

JANUARY					MAY					SEPTEMBER					
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29	30	31													

MARCH					JULY					NOVEMBER					
S	M	T	W	T	F	S	M	T	W	F	S	M	T	W	F
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17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
29	30	31													

3

JANUARY					MAY					SEPTEMBER					
S	M	T	W	T	F	S	M	T	W	F	S	M	T	W	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
29	30	31													

FEBRUARY					JUNE					OCTOBER					
S	M	T	W	T	F	S	M	T	W	F	S	M	T	W	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
29	30	31													

M

BRIEF EXPLANATION OF THIS DIRECTORY

ATTENTION

The ARPANET Directory is the property of the Department of Defense. It is to be used solely for the conduct of, or in support of, official U.S. government business. The use of this book or its data base for advertising, mail distribution lists, or for any other unauthorized purpose is strictly prohibited.

NIC INFORMATION

Services and documents available from the Network Information Center (NIC) are described in this section of the Directory.

ARPANET INFORMATION

General information, useful definitions, policies, and procedures for using the ARPANET are included in this section.

CONTACTS

This section lists contacts for obtaining general network information. It also lists the ARPANET Sponsors and the ARPANET Liaison. (For a definition of the function of each of these groups see the section on ARPANET Information.)

INDIVIDUALS

Individuals who are authorized ARPANET users and who have supplied the proper information to the ARPANET Network Information Center are listed alphabetically by last name in the INDIVIDUALS section of the directory. The format is:

INDIVIDUAL'S NAME	NIC IDENT	NETWORK-MAIL-ADDRESS
HARDCOPY-MAIL-ADDRESS		PHONE NUMBER
		HOST NAME or ORGANIZATION IDENT

where

NIC IDENT = a unique code (usually one's initials) by which the NIC Identification System recognizes and locates an individual.

NETWORK-MAIL-ADDRESS is in the form: USER-NAME@HOST-NAME. The HOST NAME portion identifies a computer (host) attached to the ARPANET at which the individual receives delivery of his network mail. The USER NAME portion of the network mail address is the character sequence by which that host identifies the user's incoming mail.

HOST NAME or ORGANIZATION IDENT = the official identification code for the host with which an individual is associated; or if no ARPANET host exists, an identification code representing the organization with which the individual is associated.

INTRODUCTION

NETWORK MAILBOX INDEX

This index is organized alphabetically by network mailbox along with the corresponding individual's name. It is a subset of the INDIVIDUALS listing and indicates what individuals are associated with which mailboxes. It is useful for identifying users of group mailboxes.

HOSTS AND ASSOCIATES

Hosts are computers connected to the ARPANET. There are three kinds of hosts: SERVERs, USERs and TIPs. SERVER hosts have implemented SERVER TELNET and are capable of providing services to remote users across the network. USER hosts let their users access resources elsewhere on the network, but do not provide services to non-local users and have not implemented SERVER TELNET. TIPs are special-case interface message processors (IMPs) which have one port dedicated to terminal connections. Associates are network-related organizations that do not have hosts connected to the ARPANET. Hosts and associates are listed alphabetically by host acronym in the format:

OFFICIAL HOST NAME	ORGANIZATION NAME
	ORGANIZATION ADDRESS

or by associate acronym in the format:

ASSOCIATE ACRONYM	ORGANIZATION NAME
	ORGANIZATION ADDRESS

and by organization name in the format:

ORGANIZATION NAME	OFFICIAL HOST NAME or ORGANIZATION
ACRONYM	
ORGANIZATION ADDRESS	

where

OFFICIAL HOST NAME = a unique acronym, obtained through negotiation with the NIC, by which a host is known on the ARPANET.

ASSOCIATE IDENT = an identification acronym for associate organizations, assigned by the NIC or by the sponsoring organization.

HOST NUMBER/IMP NUMBER ASSIGNMENTS

The Host No./IMP No. Table specifies which hosts are attached to each IMP or TIP.

COMPUTERS

The Computer Tables indicate what computers are in use on the ARPANET. The three separate tables are organized by host name, host address, and computer manufacturer.

NETWORK INFORMATION CENTER SERVICES

WHAT THE NETWORK INFORMATION CENTER (NIC) DOES

The NIC serves as a center for collection and dissemination of information about the ARPANET. It is located at SRI International in Menlo Park, California. The NIC was begun in 1970 as a research project to develop a prototypical network information center, and up until July 1, 1975 was sponsored by the Defense Advanced Research Projects Agency (DARPA). Currently it is funded by the Defense Communications Agency (DCA) to provide the services and publications outlined below.

PUBLICATIONS

The Network Information Center publishes the following documents:

The ARPANET Directory - A directory of users and hosts on the ARPANET. It gives the names, online and U.S. mail addresses, phone number, and host affiliation of ARPANET users, as well as useful ARPANET contacts and summary tables of host information.

The ARPANET Protocol Handbook - A collection of the currently accepted ARPANET, Internet, and DoD network protocols.

The ARPANET Resource Handbook - a compendium of the resources available on the ARPANET.

ARPANET News - A newsletter distributed online by the NIC on behalf of DCA to Liaison, Sponsors, and other interested people. The ARPANET News is primarily concerned with official announcements and with policies or changes affecting the ARPANET. It also contains items of general network interest.

NOTE: ARPANET users who wish to receive the ARPANET News online should send a message to NIC@SRI-KL asking to be put on the distribution list. The ARPANET News is not published in hardcopy.

ONLINE REFERENCE FILES

THE OFFICIAL ARPANET HOST NAMES LIST

An ASCII sequential file available from SRI-KL (host address = 1/2 dec.) as <NETINFO>HOSTS.TXT

This file contains the official list of host names and host addresses for hosts attached to the ARPANET. It consists of host name, host address, type of host (i.e., USER, SERVER, or TIP) and host nickname, if any. It is accessible to any network user via FTP using USERNAME 'anonymous' and PASSWORD 'guest'. It is mainly used to update local host name recognition tables.

NIC INFORMATION

THE OFFICIAL ARPANET LIAISON LIST

An ASCII sequential file available from SRI-KL (1/2 dec.) as
<NETINFO>LIAISON.TXT

This file contains name, U. S. mail address, network mail address, phone, and host affiliation for each network Liaison. It also lists the sponsoring agency for each host. This file may be FTPed from the directory <NETINFO> to a local ARPANET host using USERNAME 'anonymous' and PASSWORD 'guest'.

THE LIAISON NETWORK MAIL DISTRIBUTION LIST

An ASCII sequential file available from SRI-KL (1/2 dec.) as
<NETINFO>LIAISON-SNDMSG.TXT

This file contains network mail addresses for all Network Liaison formatted for online group distribution of messages via most mail programs. This file may be FTPed from the directory <NETINFO> to a local ARPANET host using USERNAME 'anonymous' and PASSWORD 'guest'.

REQUEST FOR COMMENTS (RFCs)

ARPANET technical notes, known as Requests for Comments or RFCs, are available online in the directory <NETINFO> at SRI-KL (1/2 dec.). They are issued by the Coordinator of the Internet Working Group (IWG), currently Jon Postel, and are announced via an online distribution list. Individuals wishing to be added to the RFC distribution list should contact NIC@SRI-KL. Each RFC remains online at the NIC for at least 21 days to give users a chance to obtain copies. RFCs may be FTPed from the directory <NETINFO> to a local ARPANET host using USERNAME 'anonymous' and PASSWORD 'guest'.

INTERNET EXPERIMENT NOTES (IENS)

Internet Working Group technical notes, known as Internet Experiment Notes or IENs, are kept online in directory <NETINFO> at SRI-KL (host address, 1/2), and Jon Postel issues these also. Individuals wishing to be added to the IEN notification list should contact NIC@SRI-KL. Each IEN remains online at the NIC for at least 21 days to give users a chance to obtain copies. IENs may also be FTPed from the directory <NETINFO> to a local ARPANET host using USERNAME 'anonymous' and PASSWORD 'guest'.

NIC/QUERY

Most of the information contained in the ARPANET Resource Handbook is also maintained online as tree-structured files in the directory <NETINFO> at SRI-KL (1/2 dec.). This information may be viewed through the NIC/QUERY program. The query program is designed for novice or casual users and is available to all ARPANET users. (See ACCESS TO NIC/QUERY below.)

ACCESS TO NIC/QUERY

To access NIC/QUERY, connect to SRI-KL (1/2 dec.) and type:

[@] nic <CR>

then follow the instructions that are printed out.

NOTE: Users may use this account for viewing reference files in the NIC/QUERY system only. They may not use it to access other programs, and it cannot be used for linking or loading the FTP program.

WHOIS

The NIC has implemented an experimental ARPANET 'white-pages' server, called WHOIS, that makes fast query/response transactions over the network to provide identification of network users (name, U.S. mail address, network mailbox, phone, and host affiliation). To add your name to this data base, send your full name, U.S. mail address (i.e., your business address without abbreviations or acronyms), network mailbox, telephone, and network sponsor to NIC@SRI-KL.

ACCESS TO WHOIS

To access WHOIS, login to a host on which WHOIS resides (see below), then type

whois LASTNAME <SP><CR>

To get help, type:

whois ? <CR>

The WHOIS program is currently running on hosts USC-ISI, USC-ISIB, USC-ISIE, USC-ISIF, RADC-TOPS20, SRI-KL, SRI-KA, OFFICE-1, OFFICE-2, and OFFICE-3. It will be running on more ARPANET computers soon. Contact NIC@SRI-KL for information.

HARDCOPY DOCUMENT DISTRIBUTION

The NIC maintains files of many hardcopy documents pertaining to the ARPANET. Although the NIC (since 1974) does not officially distribute hardcopy reprints to network users, it will attempt to honor Interlibrary Loan requests for items in the NIC collection that are not available in the open literature. This service is provided to the extent that funds and staff permit and is not guaranteed.

CORRESPONDING WITH THE NIC

Users are encouraged to correspond with the NIC concerning information matters. If there is no entry in the Directory for you, or if the entry is incorrect or should be removed, please let us know. Suggestions from users are welcome and will be considered within the constraints of a limited staff and budget.

To correspond with the NIC, use any one of the following methods of contact:

via network mail to	NIC@SRI-KL
via U. S. mail to	Elizabeth Feinler, Manager ARPANET Network Information Center Room J2021 SRI International Menlo Park, California 94025 (415) 859-3695 334463
via phone to	
via Telex to	

ARPANET GENERAL INFORMATION

USEFUL DEFINITIONS

INTERFACE MESSAGE PROCESSOR (IMP)

A store and forward packet switch which can accomodate up to four host computers. The original IMPs and TIPs were Honeywell 316 and 516 machines. NOTE: There will not be any additional 316 or 516 IMPs/TIPs added to the network as Honeywell has stopped manufacturing them. The 316 and 516 IMPs/TIPs are gradually being replaced by C/30s produced by Bolt Beranek and Newman, Inc. (BBN) for the Defense Communications Agency (DCA).

TERMINAL INTERFACE PROCESSOR (TIP)

A store and forward packet switch which can accomodate up to three host computers and 63 terminals. Each terminal may be either asynchronous or externally clocked, and may operate at speeds up to 2400 baud on input and 19.2 kilobaud on output. Some types of intelligent terminals are also supported.

PLURIBUS INTERFACE MESSAGE PROCESSOR

A store and forward packet switch based on multiprocessor technology which can accomodate in excess of 18 host computers, depending upon configuration. This type IMP, produced by BBN, has higher throughput capacity and can be configured redundantly for improved reliability.

PLURIBUS TERMINAL INTERFACE PROCESSOR (PTIP)

A store and forward packet switch produced by BBN and based on multiprocessor technology. It can accomodate in excess of 12 hosts simultaneously with several hundred terminals. Other characteristics are similar to the Honeywell TIPs.

HOST

A customer-owned computer which is connected to a host port on an IMP or TIP. Hosts may be categorized in two ways:

LOCAL HOST - A host located within 30 feet of an IMP or TIP.

DISTANT HOST - A host which is more than 30 feet, but less than 2,000 feet, from an IMP or TIP.

VERY DISTANT HOST - A host which is located over 2,000 feet from an IMP or TIP and requires modems on its access line.

ARPANET INFORMATION

or

SERVER Host - A host that has implemented SERVER TELNET and is capable of providing computer access to distant users via the network.

USER Host - A host that is not capable of providing computer access across the network, but whose members may use the network to access SERVER Hosts. NOTE: The port taken up by the terminal access on a TIP is considered a special case User, although technically no computer is attached to the TIP port.

TERMINAL

A teletypewriter, CRT, or similar unit which is connected to a terminal port of a TIP.

INTERSWITCH TRUNKS

A circuit between packet switches (e.g., IMPs and TIPs) which is used to pass packets through the network.

ACCESS LINE

A circuit from a host computer or terminal to an IMP or TIP. The circuit may be a local cable or a transmission facility requiring modems.

ARPANET BACKBONE

The switching nodes (e.g., IMPs and TIPs), interfaces, the communication lines interconnecting the nodes, and the Network Control Center (NCC). The backbone is also known as the communications subnet.

SPONSOR

A MILDEP, DoD Agency, or other U. S. Government Agency which is responsible for an ARPANET user(s) and reimburses DCA for the ARPANET backbone costs.

NODE

The packet switch; an IMP/TIP or Pluribus IMP/TIP.

WHAT THE ARPANET IS

The ARPANET is an operational, resource sharing, host-to-host network linking a wide variety of computers at research centers sponsored by Defense Advanced Research Projects Agency (DARPA) and other DoD and non-DoD activities in continental United States, Hawaii, Norway, and England.

The ARPANET originated as a purely experimental network in late 1969 under a research and development program sponsored by DARPA to advance the state-of-the-art in computer networking. The network was designed to provide efficient communications between heterogeneous computers so that hardware, software, and data resources could be conveniently and economically shared by a wide community of users.

Today, the ARPANET provides support for a large number of DoD and non-DoD government projects with an operational network of many nodes and host computers.

Following the successful accomplishment of initial ARPANET design goals and the expansion of the network, it was considered appropriate to transfer the responsibility for operation of the ARPANET from DARPA to DCA. After July 1975, DCA became the operational manager of the ARPANET.

BRIEF DESCRIPTION OF THE ARPANET

The ARPANET is an operational, computerized, packet switching DoD digital network which provides a capability for terminals or geographically separated computers, called hosts, to communicate with each other. The host computers often differ from one another in type, speed, word length, operating system, and other characteristics. Each terminal or host computer is connected into the network through a small local node computer called an IMP or TIP. The complete network is formed by interconnecting the IMPs through wideband communication lines (normally 50,000 bits per second) supplied by common carriers.

Each node is programmed to receive and forward messages to neighboring nodes in the network. During a typical operation, a host passes a message to its node; the message is passed from node to node through the network until it finally arrives at the destination IMP, which in turn passes it along to the destination host. This process normally takes less than 250 milliseconds.

Hosts communicate with each other via regular messages. A regular message may vary in length from 96 to 8159 bits, the first 96 of which are control bits called the leader. The leader is also used for sending control messages between the host and its IMP or TIP (node). The remainder of the message is the data or text.

For each regular message, the host specifies a destination, consisting of node, host, and handling type. These three parameters uniquely specify a connection between source and destination hosts. The handling type gives the connection specific characteristics, such as priority or non-priority transmission. Additional leader space has been reserved for a fourth parameter, to be used in future internetwork addressing. For each connection, messages are delivered to the destination in the same order that they were transmitted by the source.

For each regular message, the host also specifies a 12-bit identifier, the message-ID. The message-ID, together with the destination of the message, is used as the "name" of the message. The node uses this name to inform the host of the disposition of the message. Therefore, if the host refrains from re-using a particular message-ID value (to a given destination) until the node has responded about that message-ID, messages will remain uniquely identified and the host can retransmit them in the event of a failure within the network.

After receiving a regular message from a host connected to it, a node breaks the message into several packets (currently the maximum data bits per packet is 1008) and passes these through the network in the direction of the destination. Eventually, when all packets arrive at the destination, they are reassembled to form the original message which is passed to the destination

ARPANET INFORMATION

host. The destination node returns a positive acknowledgment for receipt of the message to the source host. This acknowledgment is called a Ready for Next Message (RFNM) and identifies the message being acknowledged by name. In some relatively rare cases, however, the message may not be delivered due to a node failure; line disruption, etc., in such cases an Incomplete Transmission message will be returned to the source host instead of a RFNM. In this case the message which was incompletely transmitted is also identified by name.

If a response from the destination node (either RFNM or Incomplete Transmission) is not delivered to the originating host, this condition will be detected by the source node, which will automatically inquire of the destination node whether the original message was correctly received and repeat the inquiry until a response is received from the destination node. This inquiry mechanism is timeout-driven, and each timeout period may vary between 30 and 45 seconds in length.

When a message arrives at its destination node, the leader is modified to indicate the source host, but the message-ID field is passed through unchanged. Thus, in addition to providing message identification between a host and its local node, the message-ID can provide a means for hosts to identify messages between themselves.

Users of the ARPANET may access local or distant SERVER computers (hosts) over the network. They may also exchange messages, create realtime links between users, transfer files from one computer to another, and submit batch jobs to distant computers. For a more complete description of these processes, see the ARPANET Protocol Handbook available from the NIC or the National Technical Information System (NTIS), Springfield, Va. 22161 as AD A052594.

MANAGEMENT OF THE ARPANET

The Director, DCA controls system engineering and exercises operational direction over those operating elements of ARPANET which are part of the backbone. ARPANET user equipment and terminals are non-backbone. ARPANET users must be responsive to management instructions issued by the DCA regarding the ARPANET.

DCA will monitor the effectiveness of the ARPANET on a continuing basis, evaluate those matters which have major impact or will impact adversely on the network, and direct action to alleviate or prevent any problems.

ARPANET responsibilities of DCA are

- . To set policies, procedures, and standards for the operation and maintenance of the ARPANET.
- . To approve new user access
- . To lease the backbone and terminal access circuits
- . To maintain the backbone hardware
- . To approve changes in the network
- . To set access criteria

- . To plan, program, and budget for the resources
- . To protect government assets
- . To provide configuration control
- . To coordinate activities impacting the network
- . To act as Chairman of the Network Sponsors Group
- . To evaluate the performance of the network
- . To carry out topology studies
- . To support the Network Information Center (NIC) and the Network Control Center (NCC)
- . To collect performance statistics

ARPANET POLICIES

The Assistant Secretary of Defense, Command Control, Communications, and Intelligence (ASD-C3I) has expressed the following guidance for DoD data networks and their projected users in its 16 July 1975 memo, subject - AUTODIN II Phase I:

"Those Military Department/Defense Agency ADP systems that are currently connected to the ARPANET prior to the availability of AUTODIN II Phase I should configure their design so as to minimize the impact of reconnecting to AUTODIN II Phase I once this system is operational. The final disposition of the ARPANET will be determined at a later date."

The ARPANET is an operational DoD network and is not intended to compete with comparable commercial service. Accordingly, before ARPANET service is provided to any non-U.S. Government activity, it must be determined that adequate commercial service is not available.

The ARPANET is intended to be used solely for the conduct of or in support of official U.S. Government business. The proposed use of the ARPANET must not violate applicable privacy laws.

All orders for communications lines (including VDH lines) will be placed through DCA Code 531 with the Defense Commercial Communications Office (DECCO), and appropriate charges will be billed to the sponsoring activity.

Host equipment, host interface hardware and software, host-to-IMP communications and site preparation are the responsibility of the user.

For testing new concepts and developments in data communications and computer networking, interconnection of the ARPANET with other networks is authorized. DCA elements, DARPA, and others will coordinate these plans with DCA Code 531.

ARPANET INFORMATION

GENERAL SERVICES ADMINISTRATION TELEPROCESSING SERVICES PROGRAM POLICY

The General Services Administration (GSA) has established the Teleprocessing Services Program (TSP) to insure that teleprocessing services are acquired in the best way from the government standpoint. While the TSP does not apply to equipment for an experiment that is a part of the ARPANET, GSA has stated that user selection, contracting, and ordering of data processing services via the ARPANET must be in accordance with FPMR 101-32, in general, and Temporary Regulation E-47 (TSP) in particular. Unless a company on the ARPANET is registered with the TSP program, an agency desiring to use that contractor will require a sole source justification and a waiver of the TSP program from GSA.

WHO MAY BE A SUBSCRIBER ON THE ARPANET

DOD USERS

Subject to the availability of assets, DoD activities will be connected to the ARPANET provided the requests are processed through normal communications validating channels.

NON-DOD U.S. GOVERNMENT ACTIVITIES

Non-DoD U.S. Government activities requesting ARPANET service must apply to the Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 531, Washington, D.C. 20305. Requests will be considered by DCA on a case-by-case basis.

NON-GOVERNMENT U. S. ACTIVITIES

A non-government activity must have a U.S. Government activity acting as a sponsor. Application for service on the ARPANET must be submitted by the sponsoring activity to Director, Defense Communications Agency, ATTN: ARPANET Management Branch, Code 531. The application must clearly state how the proposed service is in the best interest of the U.S. Government, is essential to mission fulfillment, does not violate privacy laws, and why adequate commercial service is not available. The contract number of the contract between the sponsoring activity and the non-government activity requiring access to the ARPANET must be provided.

NON-U. S. ACTIVITIES

Non-U. S. activities will not be directly connected to the ARPANET. Access to the ARPANET may be provided through the facilities of an authorized user if coordinated with DCA.

NEW ARPANET SERVICE

Activities wishing to join the ARPANET that are qualified in accordance with the utilization policy, should contact DCA Code 531.

If terminal service only is required, two connections are possible:

- . Hardwire to a TIP

. Dial-in to a TIP

If host service is required, three connections are possible:

LOCAL HOST (within 30 feet of the IMP or TIP). Estimated cost \$5200 for the node interface.

DISTANT HOST (30 feet to 2000 feet). Estimated cost \$6300 for the node interface and driver.

VERY DISTANT HOST (over 2000 feet). Estimated cost \$6300 for the node interface. (May also require an increase in memory of the connected IMP).

Steps to be taken and costs involved depend to a large extent on the present configuration of the net and the location of the new user and the service desired. For example, assume that an activity in the Washington, D.C. area wants to bring a host onto the ARPANET. A request would be sent for service to DCA who would in turn determine which node(s) in the area had the capacity to accommodate the requirement. DCA would then advise the requestor to obtain permission for a host connection from the owner of that node. If the node owner will allow the connection, the requestor must reach an agreement with him on length of service and cost reimbursement for the host port access.

If no host ports are available, the requestor would need to purchase a new IMP/TIP through DCA Code 531. Normally the requestor would submit his requirement to DCA who would then process it through its supporting contracting office. Either Pluribus IMPs/TIPs or the newer C/30 (formerly called MBB) IMPs/TIPs are available. Prices are available upon request from DCA Code 531.

Each application for service will be submitted in accordance with Chapter 3 of DCA Circular 310-130-1. This circular may be obtained from Headquarters, Defense Communications Agency, Code 510.

Requirements for wideband (50 KBPS and above) circuits must be submitted at least 6 months in advance to give the contractor facility upgrading and circuit engineering time. All other requests for circuit leasing actions must be submitted 90 days prior to the required service date to allow sufficient time for leasing actions.

ACCESS CONTROL

It is the duty of the Sponsors to insure that only authorized users are allowed access to hosts through network nodes. A valid contract number as well as name, U.S. mail address, network mailbox, and phone should be on record with the NIC for each non-government network user.

To effectively enforce access control, the Sponsors must have:

STANDARDS - to insure that only validated accounts are established for users.

ACCESS CONTROLS - to insure that only valid users can access the host - login/password mechanisms are satisfactory

PERIODIC REVIEWS - to insure that users, who no longer require access, are removed from the net.

ARPANET INFORMATION

When abuse of this policy is noted, Code 531 will notify the host/terminal/user's Sponsor for corrective action. If corrective action is not taken in a reasonable time, Code 531 reserves the right to disconnect the host/terminal from the network.

All dial-up modems will have a telephone number change at least once a year. The TIP Sponsor is responsible for taking prudent actions to maintain the privacy of the numbers.

All users must meet ARPANET interface criteria as specified in BBN Report 1822, "Interface Message Processor: Specifications for the Interconnection of a Host and an IMP" available from NTIS as AD A055996.

The IMPs and TIPs are owned by the Sponsors and, once integrated into the ARPANET, are controlled and maintained by DCA. The IMP/TIP owners have assignment control authority over the ports on their equipment (within limits established by ARPANET policies). Owners pay for all relocation and installation costs related to their hardware.

ARPANET SOFTWARE MODIFICATIONS

There are two general procedures for software modifications: 1) patches to correct deficiencies (bugs) in the operating program, 2) changes which are identified and approved for implementation. The software for the IMPs and TIPs is programmed in assembly language for maximum operating efficiency and use of available software. Software changes are tested and debugged at BBN prior to release. The software change releases are scheduled for testing and implementation on Tuesdays between 0700 and 0900 Boston time.

To insure that users are fully aware of major software changes which may affect their operations, the changes will be processed in the following manner:

- . A specification will be developed for each approved program change proposal.
- . For those program changes viewed as having potential impact on the users, the specifications will be coordinated with the user prior to coding.
- . Subsequently, a Software Release Notice (SRN) will be distributed to all users as far in advance as possible but not less than 30 days prior to implementation (emergency changes excepted). The SRN will provide the data required to users to adjust to the system change being implemented.

THE NETWORK CONTROL CENTER (NCC)

The Network Control Center (NCC) for the ARPANET is primarily concerned with the detection of line failures and IMP or TIP failures. In addition, the NCC monitors volumes of host traffic and line traffic which can give advance warning of network elements whose capacity may need to be increased and which can also be used for site usage accounting.

The NCC maintains other data, such as sense switches, auto restart, memory protect settings, etc., and buffer usage for each IMP/TIP. This data is helpful in diagnosing IMP/TIP failures. Due to the constant monitoring of the ARPANET at the NCC, the operational availability of the network is very high (consistently in excess of 99%).

The NCC is located in Cambridge, Massachusetts and is operated by BBN under contract to the DCA. (See also CONTACTS section.)

THE ARPANET SPONSORS GROUP

The ARPANET Sponsors Group is made up of representatives from the various DoD or U.S. Government Agencies that support the ARPANET. (See CONTACTS, ARPANET Sponsors, for a list of network sponsors.) The group considers and makes recommendations to DCA on operational activities and services available on the ARPANET. It also serves as a forum for the exchange of ideas and information on the operation of the ARPANET and of future plans for the network of common interest to its sponsors.

The Sponsors Group normally meets semiannually. Special meetings may be called by the Chairman, if the situation warrants it, prior to the next regularly scheduled meeting. Meetings normally are held in the Washington, D. C. area, but may be held at other locations.

Responsibilities of an ARPANET Sponsor are

- . To process all IMP/TIP and associated hardware requirements through Mildep or agency channels to DCA Code 531 for procurement.
- . To process via DCA Code 531 all requests for access lines, host interfaces, circuit rearrangements, and equipment moves.
- . To review for approval/disapproval requests for connection by other sponsors or government agencies, of hosts/terminals to IMPs/TIPs under his control.
- . To insure that all hosts have well-defined access control procedures and standards to prevent unauthorized use. Periodically have host accounts reviewed for removal of unauthorized users.
- . To insure that TIP liaisons change TIP Dial-In-Modem numbers as scheduled by DCA Code 531.
- . To see that the Network Liaison promptly report host/terminal connection changes as they occur to the NIC and the NCC.
- . To inform their nodes of ARPANET policies as published in the Sponsors Group Minutes and DCA correspondence.
- . To inform DCA Code 531 of any significant continuing network problems, and file Unsatisfactory Service Reports (USRs) to DCA Code 531 with copies to BBN as necessary.

ARPANET INFORMATION

- . To attend the semiannual ARPANET Sponsors Group Meetings to present problems, define user needs, make recommendations for change in policy, and discuss related network matters.
- . To validate requirements for distribution of ARPANET documentation.

THE ARPANET TECHNICAL LIAISON

The ARPANET Technical Liaison act as advisors to network users, the Network Information Center (NIC), the Network Control Center (NCC), and the Defense Communications Agency (DCA) on technical matters relating to the ARPANET. The liaison are the chief source of information about individual ARPANET hosts. They often contribute to the design of network protocols and related software and make suggestions for needed changes and improvements through memos, RFCs (network technical notes), and participation in network working groups. The liaison are a valuable network resource and the first point of contact for most ARPANET users.

The liaison are traditionally individuals trained in computer science, telecommunications, or a related field, and are familiar with the resources available at the hosts they represent. Each host on the network has no more than one technical liaison; however, the same person may serve as liaison for more than one host. The technical liaison are coordinated by the Manager of the ARPANET Network Information Center, currently Elizabeth Feinler (FEINLER@SRI-KL).

Responsibilities of an ARPANET Liaison are:

The primary responsibilities of the Host/TIP liaison are to help monitor the ARPANET against unauthorized use and to provide assistance and guidelines to ARPANET users. The liaison is frequently the first person approached by potential ARPANET users, or the first person to become aware of unauthorized use of network resources. Liaison are expected to adhere to the following guidelines and procedures in carrying out these responsibilities:

ATTACHING HOSTS OR TERMINALS TO THE ARPANET - Permission to connect hosts or terminals to the ARPANET can only be granted by a sponsoring agency through DCA. The liaison or host administrator should obtain permission to occupy a host port from the ARPANET sponsor of the node to which a host or terminal is to be connected. The node in question may belong to a sponsor other than the one sponsoring the work to be done on the host or terminal to be connected. If this is the case, approval must be obtained from the controlling sponsor who will determine whether the requirement is valid, the port is free, and the resources are available to support the interface. The controlling sponsor will in turn submit a request to initiate the connection to DCA. Only after all of these permissions are obtained may a host or terminal be added or changed on an IMP or TIP. The liaison should inform any individuals at their facilities who may wish to connect hosts or terminals to the ARPANET, of this procedure.

PROVIDING HOST INFORMATION TO THE NIC AND DCA - Upon completion of the host installation and prior to the host passing traffic, the liaison must contact DCA Code 531 (DCACODE535@ISI) via the ARPANET for final validation.

DCA will then instruct BBN to set the IMP's host access permission words to allow traffic to pass to and from the host. Before this validation can occur, the host liaison must provide the NIC and DCA Code 531 via ARPANET with his or her full name, U.S. mailing address, phone number, and network mailbox (if this has not already been done), as well as the host name, host address, operating system, computer configuration, and network sponsor for the newly installed host. NOTE: Please choose the host name carefully so that it does not need to be changed. Unnecessary host name changes create confusion and require considerable extra data maintenance throughout the network.

AUTHORIZING USERS FOR ARPANET ACCESS - Permission to use the ARPANET can only be granted by authorized host administrators to users with valid accounts. The liaison should refer all requests for such access to the proper administrators or the principal investigators of government contracts before permitting a user to access the ARPANET. ARPANET users must provide the NIC with their name, address, phone number and network mailbox. They must also include the name of the government agency sponsoring their use of the ARPANET. Users who are not members of U.S. government agencies must also provide the contract number under which they are working and its expiration date to the NIC before using the ARPANET. (TIP users should include in addition the name of the TIP that they normally use for access.) This information will be used to produce the ARPANET Directory and will be listed in the NIC's ARPANET Directory Data Base. Liaison should periodically review accounts with ARPANET access. Users whose access to the ARPANET is no longer required or valid should be removed, and the NIC should be so informed.

The host account administrator or principal investigator is required to validate his users or contractors, and to see that the NIC is informed of any changes either directly or through the host liaison. The host liaison will inform all local account administrators or principal investigators of this procedure and assist them in keeping the user information updated. If, after following this procedure, there are still doubts about whether a user can have ARPANET access, contact DCA Code 531 for final arbitration. NOTE: If an individual has not been approved by the proper administrator and has not been listed in the NIC data base, he or she should not be using the ARPANET. All unauthorized use of the ARPANET is prohibited.

MONITORING GATEWAY ACCESS - If it is possible to gain access to the ARPANET from another network (gateway) or from a tributary terminal of a host via the IMP-host connection, it is the responsibility of that host to provide software protection which will permit only authorized ARPANET users to access the network. These interfaces must be documented by letter to DCA for approval. The letter should provide a brief description of the interface, who uses it, and the software and/or hardware protection mechanism. DCA reserves the right to disapprove such gateways. The liaison should inform administrators of local or 'foreign' networks, who might wish to establish gateway connections to the ARPANET, of this procedure, and disallow any gateway access until it has been approved.

ARPANET INFORMATION

DISTRIBUTING TIP PHONE NUMBERS - Distribution of TIP dial-in numbers is entrusted to the TIP liaison. These numbers should not be released to requesting users unless the release has been authorized by the TIP's sponsor. TIP numbers will be changed annually on a schedule published by DCA. Evidence of unauthorized use of these numbers should be reported to DCA. The liaison should emphasize to the user when providing the dial-in number, that the number is for his use alone. If it is found that the user has passed the number to unauthorized parties, the user's access rights will be revoked.

AUTHORIZING DEDICATED TIP PORTS - Prior to a TIP port being activated to support a dedicated terminal access, the TIP liaison should contact DCA for final validation. The request should contain the information outlined in the TIP inventory described below. It should also include the desired activation date so that DCA can request that the NCC enable the TIP port on that date.

In addition to the above, the liaison help to coordinate equipment moves or installations, or circuit moves or installations affecting the ARPANET backbone or the IMPs and/or TIPS. Info copies of Telecommunications Service Requests (TSR's) will be sent to the liaison from DCA, informing them of any changes in backbone circuitry, terminal and/or host additions/deletions. The liaison should help coordinate access to the IMP or TIP by TEL CO or BBN to perform actions called for in the TSRs. Unless a TSR has been received authorizing equipment moves/installations or circuit moves/additions, no such moves or installations should be made without contacting DCA Code 531 for authorization. Normal maintenance actions are excluded. NOTE: Liaison for hosts/TIPS on Army installations should be aware that circuit changes/connections must be coordinated with the U.S. Army Communications Command (USACC) and copies of TSRs provided to the post C-E officer.

TIP liaison are required to forward to DCA Code 531 a quarterly TIP inventory in the format outlined in RCS #DCA(Q)530-49 (format available from DCA Code 531 or the NIC). The inventory is due by the 15th of January, April, July, and October of each year. Transmission via ARPANET is acceptable. A copy of the inventory should also be provided to the agency sponsoring the TIP. NOTE: A report is required indicating that no changes have occurred if this happens to be the case.

On the first of each month the NIC will provide, via the ARPANET, a table of ARPANET Host Names, Liaison, and Sponsors. Liaison will be asked to review entries on this list pertaining to their TIPs or Hosts for accuracy, and to provide changes as soon as possible to the NIC. If host or TIP liaison are changed, the old liaison should provide the name, address, telephone number, and network mailbox of the new liaison to both the NIC and DCA Code 531 as soon as possible.

Each liaison is expected to provide the NIC with a description of equipment, software, people, and interests pertaining to his designated hosts in accordance with the formats outlined by the NIC.

In addition each liaison is responsible for providing the NIC with updated personnel information for the ARPANET Directory and online ARPANET Directory data base. This may be done in coordination with sponsors, host administrators, and principal investigators.

For very large organizations this activity may be delegated to an individual other than the liaison. Also, individual users may send their own information via the network to the NIC. However, it is the responsibility of the liaison to coordinate the flow of this information from his or her host(s) to the NIC.

The liaison is expected to keep local users informed about procedures and happenings related to the ARPANET (such as announcements in the ARPANET Newsletter). The Liaison will be the recipient of official messages pertaining to the ARPANET. These messages should be 'posted' and/or passed on by the Liaison to local users, administrators, or other personnel who may have an interest or a need to know. Unless otherwise specified, messages sent to the liaison are considered general information messages which may be widely distributed to user and administrative constituencies.

The liaison serve as the local ARPANET contact for their respective host(s). The liaison provide information to their local users about ARPANET procedures, and they also provide information to non-local ARPANET users about local host procedures and resources. They often assist in bringing up new hosts by providing network software and folklore. The liaison can either provide help directly or refer users to the proper local contact. Requests by users for information about other ARPANET hosts may be referred to the liaison of the host in question or to the NIC. (As a rule of thumb the NIC answers general questions about contacts, procedures, and resources on the ARPANET, and the liaison answer specific questions about their own hosts and software.)

Liaison should inform the NCC and DCA of network backbone problems and network software bugs, and generate Unsatisfactory Service Reports if necessary. They ensure that ARPANET protocols are implemented properly at the host level. (This activity may be delegated if the liaison is not the maintainer of the network software. However, the liaison is expected to be the contact for protocol information distributed to the hosts and to see that the right person receives it.)

If an illegal access to the host occurs through the ARPANET, the liaison will advise DCA of the pertinent details in addition to following normal host security procedures.

FUNDING

The operation and maintenance (O&M) of the ARPANET backbone, i.e., nodes, interfaces, and internode communications circuits, are paid for through the Communications Services Industrial Fund (CSIF) which is managed and operated by the Defense Communications Agency. The Defense Commercial Communications Office (DECCO) has responsibility for all leasing actions which take place under the CSIF. This function includes normal contract management activities for the ARPANET. All bills for the CSIF portion of the ARPANET are paid by DECCO. Audits of contractors are performed by the Defense Contract Audit Agency (DCAA) at the request of DECCO. The vehicle used to request communication services is the ARPANET TSR which is forwarded to DECCO from DCA Code 531 as the ARPANET manager. Under the working capital or revolving fund concept, predetermined subscriber rates are the basis for recovering the cost of operating and maintaining the backbone network.

ARPANET INFORMATION

The estimated cost to operate and maintain the ARPANET backbone during a fiscal year, divided by the estimated number of IMPs and TIPs in the network, provides the annual cost per year per node.

All ARPANET customer activities will be billed monthly based on a predetermined cost for each operational node in the backbone. Contact DCA CODE 531 (DCACODE535@ISI) to obtain the current monthly rate.

SECURITY

The ARPANET communications subnet or 'backbone' contains no security features to insure privacy or the protection of classified defense information transiting the network. Therefore, it is the responsibility of sponsors and those operating hosts on the network to take steps to protect information resident or accessible through their host computers from access by unauthorized users, and to provide protection against unauthorized access to classified information which may reside or be accessible via their host computer link to the network.

There are no "login" procedures for initial network access. All access control is provided at the host level.

A secure subnet is possible by providing hosts with a Private Line Interface (PLI). The PLI has been approved by the National Security Agency (NSA) and costs approximately \$55,000 per copy. The user also has to provide a KG34. The PLI subnet can include up to 128 hosts constrained to 32 nodes.

COMPLAINTS

A complaint center teletype is maintained at the NCC for users reporting problems or seeking assistance. Receiving and processing complaints is not purely an NCC function, thus an additional channel for reporting unsatisfactory service has been developed. The ARPANET Unsatisfactory Service Report (USR) has been established as the formal means of reporting deficiencies with respect to the operations of the ARPANET backbone communications.

Problems or complaints which cannot be resolved through normal channels should be reported by means of the USR. The types of problems to be included are, but are not limited to, the following:

- . Excessive response time
- . Inadequate restoral procedures
- . Unsatisfactory maintenance support

The User (Sponsor) must determine when service has reached an unsatisfactory point. The report may be sent over the ARPANET, AUTODIN, or by U.S. Mail. Reports should be addressed to DCA Code 531 with information copies to the NCC at BBN and any other activity as deemed appropriate by the originators. (See CONTACTS section for addresses.)

GENERAL CONTACTS

TIP PHONE NUMBERS

The NIC does not provide TIP phone numbers to network users. Access to a TIP is at the discretion of the Sponsor for a given TIP, and is not guaranteed. To obtain a TIP phone number, contact the Liaison for the TIP to be accessed. (See the HOSTS BY LOCATION section for the geographic location of TIPs, and the NETWORK LIAISON section for a list of the Liaison.)

ARPANET MANAGEMENT, POLICY, AND SERVICE

Questions regarding general policy or access to the ARPANET or unsatisfactory ARPANET service should be sent to

Director, Defense Communications Agency (DCA)
ATTN: ARPANET Management Branch, Maj. Joseph Haughney
Code 531
Washington, D. C. 20305

(202) 692-6175 or 692-6176 (Commercial)
222-6175 or 222-6176 (Autovon)
DCACODE535@ISI (Online mail)

NETWORK OPERATION AND TRAFFIC

Technical questions concerning network operation and usage should be sent to

Network Control Center (NCC)
ATTN: James G. Herman
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 491-1850 ext 3117
HERMAN@BBNE (Online mail)

IMPS, TIPS, AND NETWORK LINE PROBLEMS

Routine questions on IMP and TIP operation and network line problems should be sent to

Network Control Center (NCC)
ATTN: Jim Powers
Bolt Beranek and Newman, Inc.
Cambridge, Massachusetts 02138

(617) 661-0100
POWERS@BBNE (Online mail)

GENERAL CONTACTS

GENERAL NETWORK RESOURCE INFORMATION

Questions regarding what or where resources are located on the network or who to contact should be sent to

Network Information Center (NIC)
ATTN: Elizabeth Feinler
SRI International
Menlo Park, California 94025

(415) 859-3695
FEINLER@SRI-KL (Online mail)

PROTOCOLS

Technical questions regarding network protocols should be sent to

Network Working Group Coordinator (NWG)
ATTN: Jon Postel
University of Southern California
Information Science Institute
4676 Admiralty Way
Marina Del Rey, California 90291

(213) 822-1511
POSTEL@USC-ISIF (Online Mail)

NETWORK SPONSORS

NAME U. S. Mail Address City, State, Zip	NIC Ident	Network Mail Address Phone Organization ident(s)	FARISS, Gilbert M. Army Communications Command C-E Services Division Data Communications Branch Mail Stop 110, Building 1465 Fort Belvoir, Virginia 22060	GMF	CE-SVC@DARCOM-KA (703) 664-5661 (AV) 354-5661 USACC
AVRUNIN, I. Larry David Taylor Naval Ship Research and Development Center Code 1804 Bethesda, Maryland 20084	ILA	AVRUNIN@USC-ISIE (202) 227-1492 DTNSRDC	LAWRENCE, Thomas F. Rome Air Development Center Information Sciences Interactive Processing Section (ISCP) Griffiss Air Force Base, New York 13441	TFL	Lawrence @RADC-TOPS20 (315) 330-7746 (AV) 587-7746 RADC-MULTICS
BLANC, Robert P. National Bureau of Standards Technology 225, Room B218 Washington, D.C. 20234	RPB	BLANC@NBS-10 (301) 921-3817 NBS-10 NBS-UNIX NBS-TIP	LINFIELD, Robert L. Department of Commerce National Telecommunications and Information Administration 325 Broadway Boulder, Colorado 80303	RLL4	linfield@NTIA-ITS (303) 499-1000 ext 4243 NTIA-ITS
BOIRE, Glen G. Air Force Global Weather Central (MAC/DOP) Offutt Air Force Base, Nebraska 68113	GGB	AFGWC@BBBNB (402) 294-4934 GWC-TIP	LUNDQUIST, Arthur C. Air Force Systems Command Headquarters/ACDT Andrews Air Force Base, Maryland 20334	ACL	LUNDQUIST@BBNC (617) 271-2969 AFSC-HDQ
BROWNFIELD, Robert P. Defense Communications Agency Code 531 Washington, D. C. 20305	RPB2	DCACODE535@USC-ISI (202) 692-7495 (AV) 222-7495 DCA	MUSGRAVE, Clyde Defense Communications Engineering Center Code R820 1860 Wiehle Avenue Reston, Virginia 22090	CMUS	CLYDE@BBNB (703) 437-2271 (AV) 364-2271 DCEC-TIP
CERF, Vinton G. Advanced Research Projects Agency Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209	VGC	CARLSON@USC-ISI (202) 694-3049 ARPA-TIP IPTO PI NLG-AUX IFIP6-5-UEAM	POOL, James C. T. Department of Energy Basic Energy Sciences J-309 Washington, D.C. 20545	JCTP	POOL@LBL-UNIX (301) 353-5822 (FTS) 233-5822 DOE
CRAIG, Palmer H. Warner-Robins ALC/MMECDM Robins Air Force Base, Georgia 31098	PHC	CRAIG@RADC-TOPS20 (912) 926-2992 (AV) 468-2992 WRALC-TIP ROBINS-UNIX	POTTER, Jackie C. Air Force Data Systems Design Center/DMT Management Technology Division Building 402 Gunter Air Force Station, Alabama 36114	JCP2	JPOTTER@USC-ISID (205) 279-3671 (AV) 921-3671 GUNTER-TIP
DEITZ, Richard Director National Security Agency COINS Network Control Center Room 2W157 Ft. George G. Meade, Maryland 20755	RD2	COINS@USC-ISI (301) 688-7757 COINS-GATEWAY	SILVERMAN, Mark I. U.S. Geological Survey Mail Stop 801 Reston, Virginia 22092	MIS	Network Address Unknown (703) 860-7117 (FTS) 928-7117 USGS-RESTON USGS1-TIP

NETWORK SPONSORS

SOBALA, J. G. JGS1 Network Address Unknown
National Aeronautics and NASA-HQ
Space Administration, HQ.
Attn: Code TS, J. Sobala
600 Independence Avenue,
S.W.
Washington, D.C. 20546

THOMAS, John JT2 Thomas@CCTC
Defense Communications (703) 437-2329
Agency CCTC
Command and Control
Technical
Center
11440 Isaac Newton Square
North
Reston, Virginia 22090

NETWORK LIAISON

ACRONYM	ADDR. (Dec)	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
ACCAT-TIP	2/35	TIP	ARPA	Goertz, James J. (GOERTZ@USC-ISI)
AFGL	1/66	SERVER	AFSC	Cosentino, Anthony (COSENTINO@BBNC)
AFGL-TIP	2/66	TIP	AFSC	Cosentino, Anthony (COSENTINO@BBNC)
AFSC-AD	0/53	SERVER	AFSC	Spies, Herbert A. (SPIES@BBNC)
AFSC-DEV	2/53	SERVER	AFSC	George, Calvin R. (SPIES@BBNC)
AFSC-HQ	0/67	SERVER	AFSC	Krenik, Mark J. (KRENIK@BBNC)
AFSC-HQ-TIP	1/67	TIP	AFSC	Krenik, Mark J. (KRENIK@BBNC)
AFSC-SD-TIP	1/65	TIP	AFSC	Pace, Christopher (No Network Mailbox)
AFWL	0/48	SERVER	AFSC	Mauli, Roy S. (AFWL@I4-TENEX)
AFWL-TIP	2/48	TIP	AFSC	Mauli, Roy S. (AFWL@I4-TENEX)
AMES-11	3/16	USER	NASA	Hart, James P. (HART@AMES-67)
AMES-67	0/16	SERVER	NASA	Bomberger, Alan (BOMBERGER@AMES-67)
AMES-TIP	2/16	TIP	NASA	Jones, William P. (JONES@I4-TENEX)
ANL	0/55	SERVER	DOE	Amiot, Lawrence W. (AMIOT@BBNC)
ARPA-DMS	0/28	SERVER	ARPA	Collison, Ron (COLLISON@USC-ISI)
ARPA-PENGUIN	3/28	USER	ARPA	Collison, Ron (COLLISON@USC-ISI)
ARPA-TIP	2/28	TIP	ARPA	Collison, Ron (COLLISON@USC-ISI)
BBN-GATEWAY	3/40	USER	ARPA	Bressler, Robert D. (BRESSLER@BBNE)
BBN-NCC	0/40	USER	DCA	Alexander, Margaret (ALEXANDER@BBND)
BBN-NU	0/72	SERVER	DCA	Herman, James G. (HERMAN@BBNE)
BBN-PTIP	2/5	USER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBN-SAC	1/63	USER	DCA	Steele, Douglas W. (STEELE@BBNG)
BBN-SPEECH-11	2/49	USER	ARPA	Field, Kenneth D. (KFIELD@BBND)
BBN-TAC	2/72	TAC	ARPA	Hinden, Robert (HINDEN@BBNE)
BBN-TESTIP	2/30	TIP	DCA	Herman, James G. (HERMAN@BBNE)
BBN-UNIX	0/63	SERVER	ARPA	Nemeth, Alan G. (agn@BBN-UNIX)
BBNA	3/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBNB	0/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBNC	3/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBND	1/49	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBNE	0/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBNF	0/71	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BBNG	1/5	SERVER	ARPA	Chipman, Stephen G. (CHIPMAN@BBNA)
BCR-108	2/62	USER	ARPA	Good, Donald I. (good@UTEXAS-11)
BCR-113	3/62	USER	ARPA	Good, Donald I. (good@UTEXAS-11)
BERKELEY	2/34	SERVER	ARPA	Allman, Eric P. (eric@BERKELEY)
BNL	1/58	SERVER	DOE	Campbell, Graham (BNL@BBNC)
BRAGG-GATEWAY	0/38	USER	ARPA	Hagan, R. Douglas (HAGAN@USC-ISID)
BRAGG-TIP	2/38	TIP	ARMY	Hagan, R. Douglas (HAGAN@USC-ISID)
BRL	0/29	USER	ARMY	Taylor, Donald F. (DTAYLOR@OFFICE-2)
CCA-TENEX	0/31	SERVER	ARPA	Sattley, Joanne Z. (JZS@CCA-TENEX)
CCA-UNIX	2/31	SERVER	ARPA	Herot, Christopher (HEROT@CCA-TENEX)
CCTC	0/20	SERVER	CCTC	Thomas, John (Thomas@CCTC)
CENTACS-MMP	0/60	USER	ARMY	Arnold, Joseph (DRDCO-AM@OFFICE-2)
CENTACS-TF	3/60	USER	ARMY	Arnold, Joseph (DRDCO-AM@OFFICE-2)
CHI	1/7	SERVER	ARPA	McCammon, Michael (CHI@USC-ISIE)
CINCPAC-TIP	2/36	TIP	ARPA	Lockard, Martin E. (LOCKARD@USC-ISI)
CINCPACFLT-WM	1/36	USER	CINCPAC	Deleot, Charles F. (DELEOT@USC-ISI)
CIT-20	0/54	SERVER	ARPA	Seitz, Charles (Chuck@CIT-20)
CIT-VAX	1/54	USER	ARPA	Seitz, Charles (Chuck@CIT-20)
CMU-10A	1/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-10B	0/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-10D	2/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
CMU-20C	3/14	SERVER	ARPA	Wactlar, Howard D. (WACTLAR@CMU-10B)
COINS-GATEWAY	1/57	SERVER	NSA	Deitz, Richard (COINS@USC-ISI)
COINS-TAS	0/36	USER	CINCPAC	Lockard, Martin E. (LOCKARD@USC-ISI)
COLLINS-PR	0/46	USER	ARPA	Quilici, Timothy (QUILICI@USC-ISIE)
COLLINS-TIP	2/46	TIP	ARPA	Quilici, Timothy (QUILICI@USC-ISIE)

NETWORK LIAISON

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
	(Dec)			
CORADCOM-TIP	2/60	TIP	ARMY	Arnold, Joseph (DRDCO-AM@OFFICE-2)
CTO-DDF	1/17	SERVER	ARPA	Yacoub, Shireen (shireen@CTO-DDF)
DARCOM-KA	0/51	SERVER	ARMY	Larson, Alan (LARSON@SRI-KL)
DARCOM-PTIP	2/50	TIP	ARMY	Biederman, Fred (BIEDERMAN@DARCOM-KA)
DCEC-TIP	2/20	TIP	DCEC	Musgrave, Clyde (CLYDE@BBNB)
DEC-2136	0/37	SERVER	ARPA	Lyons, David R. (LYONS@DEC-MARLBORO)
DEC-MARLBORO	1/37	SERVER	ARPA	Lyons, David R. (LYONS@DEC-MARLBORO)
DOCB-TIP	2/25	TIP	DOCB	Harman, John (dave@NTIA-ITS)
DTI	1/12	SERVER	CCTC	Segovich, Fred A. (fred@DTI)
DTNSRDC	1/8	SERVER	NAVY	Tinker, Robert W. (DTNSRDC@USC-ISIE)
EDN-UNIX	3/20	SERVER	DCEC	Cain, Edward A. (cain@EDN-UNIX)
ETAC	0/59	USER MAC/AFGWC		Freimund, Marvin (No Network Mailbox)
FNOC	1/33	USER	ARPA	Bradford, Bryan E. (FNWC@USC-ISIE)
FNOC-SECURE	3/33	USER	ARPA	Bradford, Bryan E. (FNWC@USC-ISIE)
GUNTER-TIP	2/13	TIP	AFDSDC	Hale, David C. (DHALE@USC-ISID)
GUNTER-UNIX	0/13	SERVER	AFDSDC	Breitling, Robert (BREITLING@USC-ISID)
GWC-TIP	2/24	TIP	MAC/AFGWC	Volk, Richard E. (AFGWC@BBNB) AFGWC
HARV-10	0/9	SERVER	ARPA	Mealy, George H. (MEALY@HARV-10)
HI-MULTICS	0/24	SERVER	ARPA	Asproth, Robert (Asproth@HI-MULTICS)
I4-TENEX	0/15	SERVER	NASA	Welch, Todd Carlton (WELCH@I4-TENEX)
ISI-SPEECH11	0/22	USER	ARPA	Casner, Stephen L. (CASNER@USC-ISIB)
ISI-XGP11	0/52	USER	ARPA	Cass, Dwight E. (CASS@USC-ISIE)
LBL	0/34	SERVER	DOE	Hall, Dennis E. (hall@LBL-UNIX)
LBL-UNIX	1/34	SERVER	DOE	O'Dell, Mike (Mo@LBL-UNIX)
LL	0/10	SERVER	ARPA	Haines, Edward C. (Haines@LL)
LL-11	3/10	SERVER	ARPA	Joyce, Elizabeth P. (liaison@LL-XN)
LL-ASG	1/44	SERVER	ARPA	Schroder, Ken (liaison@LL-ASG)
LL-XN	2/10	SERVER	ARPA	Joyce, Elizabeth P. (liaison@LL-XN)
LLL-COMP	0/21	SERVER	DOE	Swanson, John E. (jes@LLL-COMP)
LLL-MFE	1/21	SERVER	DOE	Howard, Barry C. (HOWARD@LLL-MFE)
LLL-S1	2/21	SERVER	DOE	Chin, Hon Wah (HWC@SU-AI)
LOGICON	2/3	USER	ARPA	Soleglad, Michael (LOGICON@USC-ISI)
LONDON	0/42	SERVER	ARPA	Das, Sunil K. (KIRSTEIN@USC-ISI)
LONDON-GATEWAY	3/42	USER	ARPA	Gamble, Hugh R. (GAMBLE@BBND)
LONDON-TIP	2/42	TIP	ARPA	Das, Sunil K. (KIRSTEIN@USC-ISI)
LONDON-VDH	1/42	SERVER	ARPA	Higginson, Peter L. (UKSAT@USC-ISIE)
MARTIN	3/53	USER	AFSC	Zgura, Andrew (Martin.Marietta5@CMU-10D)
MIT-AI	2/6	SERVER	ARPA	Knight, Thomas F. (TK@MIT-AI)
MIT-DEVMULTICS	4/31	SERVER	ARPA	Hornig, Charles (Hornig@MIT-MULTICS)
MIT-DMS	1/6	SERVER	ARPA	Galley, Stuart W. (SWG@MIT-DMS)
MIT-MC	3/44	SERVER	ARPA	Moon, David (MOON@MIT-MC)
MIT-ML	3/6	SERVER	ARPA	Golden, V. Ellen (ELLEN@MIT-MC)
MIT-MULTICS	0/6	SERVER	ARPA	Scott, Richard (Scott@MIT-MULTICS)
MIT-TIP	2/44	TIP	ARPA	Schoof, Janet (JAN@MIT-XX)
MIT-XX	0/44	SERVER	ARPA	Schoof, Janet (JAN@MIT-XX)
MITRE	0/17	SERVER	ARPA	Holmgren, Steven F. (steve@MITRE)
MITRE-TIP	2/17	TIP	ARPA	Poh, Susan S. (POH@USC-ISI)
MOFFETT-ARC	0/45	SERVER	ARPA	Kettler, William (KETTLER@USC-ISI)
MOFFETT-SUBNET	1/45	USER	ARPA	Kettler, William (KETTLER@USC-ISI)
NADC	3/8	USER	NBS	Calkins, Ted (NADC@USC-ISIE)
NBS-10	0/19	SERVER	NBS	Rosenthal, Lynne (LYNNE@NBS-10)
NBS-TIP	2/19	TIP	NBS	Nielsen, Frances H. (NIELSEN@NBS-10)
NBS-UNIX	3/19	SERVER	NBS	Rosenthal, Robert (ROSENTHAL@NBS-10)
NCC-TIP	2/40	TIP	DCA	Herman, James G. (HERMAN@BBNE)
NCSC	1/53	USER	NAVY	Brown, J. David (JDB@NCSC)
NDRE	1/41	USER	ARPA	Lundh, Yngvar G. (YNGVAR@DARCOM-KA)
NDRE-GATEWAY	3/41	USER	ARPA	Lundh, Yngvar G. (YNGVAR@DARCOM-KA)
NORSAR-40A	0/41	USER	ARPA	Fyen, Jan (DAGRM@DARCOM-KA)
NORSAR-TIP	2/41	TIP	ARPA	Fyen, Jan (DAGRM@DARCOM-KA)
NOSC-CC	0/3	SERVER	NAVY	Unger, Robert A. (unger@NOSC-CC)

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
	(Dec)			

NOSC-SDL	1/35	SERVER	ARPA	Ammons, Tempest P. (AMMONS@NOSC-SDL)
NOSC-SECURE2	0/35	USER	ARPA	Metzger, John P. (JMETZGER@USC-ISIB)
NOSC-SECURE3	3/35	USER	ARPA	Metzger, John P. (JMETZGER@USC-ISIB)
NOSC-SPEL	1/3	SERVER	ARPA	Hammond, John (hammond@NOSC-CC)
NPRDC	4/3	SERVER	NAVY	Noel, J. Gregory (Greg@NOSC-CC)
NPS	0/33	USER	ARPA	Limes, Robert (BLIMES@USC-ISIE)
NPS-TIP	2/33	TIP	ARPA	Norman, David F. (NORMAN@USC-ISIE)
NRL	0/8	SERVER	NAVY	Shannon, Douglas P. (NRL@USC-ISIE)
NRL-ARCTAN	6/8	USER	NAVY	Anderson, Wendell (GERLACH@I4-TENEX)
NRL-CSD	7/8	USER	NAVY	Wilson, Stanley H. (SWILSON@USC-ISI)
NRL-TOPS10	8/8	SERVER	NAVY	Aiken, Edward Lewis (NRL@USC-ISIE)
NSWC-DL	4/8	SERVER	NAVY	Stemple, Eugene (NSWC-DL@USC-ISIE)
NSWC-WO	2/8	SERVER	NAVY	Archer, Robert D. (NSWC@USC-ISIE)
NTIA-ITS	0/25	SERVER	DOCB	Wortendyke, David (davew@NTIA-ITS)
NUSC	3/58	USER	NAVY	Quigley, Donald (dqquigley@NUSC-NPT)
NUSC-NPT	2/9	SERVER	NAVY	Schneller, Steve (steve@NUSC-NPT)
NWC	3/3	SERVER	NAVY	Zenor, John J. (NWC@USC-ISIE)
NYU	0/58	SERVER	DOE	Franceschini, Ed (FRANCESCHINI@BBNC)
OFFICE-1	0/43	SERVER	ARMY	French, Philip E. (FRENCH@OFFICE-2)
OFFICE-2	1/43	SERVER	ARMY	Knight, Robert M. (RKNIGHT@OFFICE-2)
OFFICE-3	2/43	SERVER	ARMY	French, Philip E. (FRENCH@OFFICE-2)
PARC-GATEWAY	1/32	USER	ARPA	Taft, Edward A. (Taft@PARC-MAXC)
PARC-MAXC	0/32	SERVER	ARPA	Taft, Edward A. (Taft@PARC-MAXC)
PARC-MAXC2	2/32	SERVER	ARPA	Taft, Edward A. (Taft@PARC-MAXC)
PENT-UNIX	3/26	USER	AFDSDC	Muir, Charles W. (No Network Mailbox)
PENTAGON-TIP	2/26	TIP	ARPA	Muir, Charles W. (No Network Mailbox)
RADC-MULTICS	0/18	SERVER	RADC	Walker, Robert (Walker@RADC-MULTICS)
RADC-TIP	2/18	TIP	RADC	Walker, Robert (Walker@RADC-MULTICS)
RADC-TOPS20	3/18	SERVER	RADC	Metzger, Richard (Metzger@RADC-TOPS20)
RADC-UNIX	5/18	SERVER	RADC	Jones, Emilie B. (Jones@RADC-TOPS20)
RADC-XPER	1/18	SERVER	RADC	Jones, Emilie B. (Jones@RADC-TOPS20)
RAND-AI	0/7	SERVER	ARPA	Wahrman, Michael L. (mike@RAND-UNIX)
RAND-TIP	2/7	TIP	ARPA	McClure, Doris L. (doris@RAND-UNIX)
RAND-UNIX	3/7	SERVER	ARPA	O'Brien, Michael (obrien@RAND-UNIX)
ROBINS-UNIX	3/64	USER	AFLC	Craig, Palmer H. (CRAIG@RADC-TOPS20)
ROCHESTER	4/18	SERVER	ARPA	Moore, Lee C. (FELDMAN@SUMEX-AIM)
RUTGERS	2/58	SERVER	ARPA	Watrous, Donald A. (WATROUS@RUTGERS)
SANDIA	3/48	USER	DOE	Linnerooth, Thomas (No Network Mailbox)
SCI-ICS	3/32	SERVER	ARPA	Green, Cordell (GREEN@SCI-ICS)
SDAC-44	3/39	SERVER	ARPA	Hill, Alan R. (HILL@SDAC-UNIX)
SDAC-CCP	0/39	USER	ARPA	Miller, Douglas (Miller@SDAC-UNIX)
SDAC-NEP	2/39	USER	ARPA	Hill, Alan R. (HILL@SDAC-UNIX)
SDAC-UNIX	1/39	SERVER	ARPA	Whitaker, D. Anne (WHIT@SDAC-UNIX)
SRI-C3PO	1/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL)
SRI-KL	1/2	SERVER	ARPA	Meyers, Harris A. (MEYERS@SRI-KL)
SRI-NSC11	3/2	USER	ARPA	Craighill, Earl (EJC@SRI-TSC)
SRI-R2D2	3/51	USER	ARPA	Mathis, James E. (MATHIS@SRI-KL)
SRI-TSC	0/2	USER	ARPA	Craighill, Earl (EJC@SRI-TSC)
SRI-UNIX	2/51	SERVER	ARPA	Croft, William J. (croft@SRI-UNIX)
SRI-VIS11	2/2	USER	ARPA	Goodfellow, Geoff (GEOFF@DARCOM-KA)
STLA-PTIP	2/61	TIP	ARMY	Nelson, Steve E. (SNELSON@OFFICE-1)
SU-AI	0/11	SERVER	ARPA	Crispin, Mark (Admin.MRC@SU-SCORE)
SU-ISL	1/56	SERVER	ARPA	Stewart, Larry (Stewart.PA@PARC-MAXC)
SU-SCORE	3/11	SERVER	ARPA	Crispin, Mark (Admin.MRC@SU-SCORE)
SU-TIP	2/11	TIP	ARPA	Gorin, Ralph E. (REG@SU-AI)
SUMEX-AIM	0/56	SERVER	ARPA	Tucker, Robert (TUCKER@SUMEX-AIM)
TYCHO	0/57	USER	NSA	Weiss, Howard S. (DEDWARDS@USC-ISI)
UCLA-ATS	0/1	SERVER	ARPA	Nelson, Louis C. (lou@UCLA-ATS)
UCLA-CCN	1/1	SERVER	ARPA	Braden, Robert T. (CCN@USC-ISI)
UCLA-SECURITY	2/1	SERVER	ARPA	Walton, Evelyn (EVE@UCLA-SECURITY)

NETWORK LIAISON

ACRONYM	ADDR.	TYPE	SPONSOR	LIAISON and NETWORK MAILBOX
	(Dec)			
UDEL	1/50	SERVER	ARMY	Szurkowski, Edward (Szurko@UDEL-EE)
USAFA-GATEWAY	1/25	SERVER	ARPA	Ravenscroft, Donald (raven@USAFA-GATEWAY)
USC-ECL	3/23	SERVER	ARPA	Wiedel, James (WIEDEL@USC-ECL)
USC-ISI	1/22	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIB	3/52	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIC	2/22	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISID	0/27	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIE	1/52	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-ISIF	2/52	SERVER	ARPA	Russell, Dale S. (DALE@USC-ISIB)
USC-TIP	2/23	TIP	ARPA	Pepin, James M. (PEPIN@USC-ECL)
USGS1-TIP	2/68	TIP	USGS	Silverman, Mark (No Network Mailbox)
USGS2-TIP	2/69	TIP	USGS	Terrazas, Robert (No Network Mailbox)
USGS3-TIP	2/70	TIP	USGS	Doherty, Patrick (No Network Mailbox)
UTAH-11	0/4	USER	ARPA	Randall, George (GRANDALL@USC-ISIE)
UTAH-20	3/4	SERVER	ARPA	Frank, Randall (FRANK@UTAH-20)
UTAH-TIP	2/4	TIP	ARPA	Ogden, Stewart (OGDEN@USC-ISIE)
UTEXAS-11	0/62	SERVER	ARPA	Phillips, David M. (david@UTEXAS-11)
UTEXAS-20	1/62	USER	ARPA	Dawson, Clive B. (clive@UTEXAS-11)
WHARTON-10	1/19	SERVER	ARPA	Morgan, Howard (MORGAN@WHARTON-10)
WPAFB	0/47	SERVER	AFSC	Jansen, Wayne A. (JANSEN@BBNC)
WPAFB-AFWAL	1/47	SERVER	AFSC	McClendon, Joseph (MCCLENDON@WPAFB-AFWAL)
WPAFB-TIP	2/47	TIP	AFSC	Fall, Leonard B. (JANSEN@BBNC)
WRALC-TIP	2/64	TIP	AFLC	Craig, Palmer H. (CRAIG@RADC-TOPS20)
WSMR-TIP	2/74	TIP	ARMY	Steffey, Claude (STEFFEY@DARCOM-KA)
YPG	0/75	USER	ARMY	Mitchell, James N. (WYMER@DARCOM-KA)

NETWORK INDIVIDUALS

NAME U. S. Mail Address City, State, Zip	NIC Ident	Network Mail Address Phone Organization ident(s)	Abramovitz, Norman A. Ford Aerospace and Communications Corporation Western Development Laboratories Mail Stop V02 3939 Fabian Way Palo Alto, CA 94303	NAA	ABRAMOVITZ@SRI-KL (415) 494-7400 ext 5506 FORD-AEROSPACE
AAGESEN, Finn A. Norwegian Defence Research Establishment P.O. Box 25 2007 Kjeller NORWAY	FAA2	FINN@DARCOM-KA (02) 71 26 60 ext 306 NDRE	ABRAMS, Marshall D. National Bureau of Standards Technology 225, Room B226 Washington, D.C. 20234	MDA	ABRAMS@NBS-10 (301) 921-3517 NBS-10
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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NETWORK ADDRESSES INDEX

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ARPANET DIRECTORY
NIC 48000 Nov. 1980

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AFSC-AD AFSC-DEV	Air Force Armament Division (AFSC) AD/KRES Eglin Air Force Base, FL 32542	BBN-GATEWAY BBN-NCC BBN-NU BBN-PTIP BBN-SPEECH-11 BBN-TAC BBN-TESTIP BBN-UNIX BBNF	Bolt Beranek and Newman Inc. 50 Moulton Street Cambridge, MA 02238
AFSC-HQ AFSC-HQ-TIP	Air Force Systems Command/ACDT Headquarters Andrews Air Force Base, MD 20334	BBN-SAC	Bolt Beranek and Newman Inc. Signal Analysis Center 50 Moulton Street Cambridge, MA 02238
AFSC-SD-TIP	Air Force Systems Command Space Division SD/ACDA 2400 El Segundo Boulevard El Segundo, CA 90245	BBNA BBNC	Bolt Beranek and Newman Inc. Research, Computer Center 50 Moulton Street Cambridge, MA 02238
AFWL AFWL-TIP	Air Force Weapons Laboratory/ADD Kirtland Air Force Base Albuquerque, NM 87117	BBNB BBND BBNE BBNG	Bolt Beranek and Newman Inc. Computer Science Division 50 Moulton Street Cambridge, MA 02238
AMES-11	National Aeronautics and Space Administration (NASA) Ames Research Center Network Graphics Group Mail Stop 233-9 Moffett Field, CA 94035	BCR-108 BCR-113	Bolt Beranek and Newman Inc. Computer Science Division 50 Moulton Street Cambridge, MA 02238
AMES-67	National Aeronautics and Space Administration (NASA) Ames Research Center Computation Division Mail Stop 233-13 Moffett Field, CA 94035	BERKELEY	University of Texas 2100 Main Building Austin, TX 78712
AMES-TIP	National Aeronautics and Space Administration (NASA) Ames Research Center Computation Division Mail Stop 233-10 Moffett Field, CA 94035	BNL	University of California Electronics Research Lab Project INGRES 380 Cory Hall Berkeley, CA 94720
			Brookhaven National Laboratory Applied Mathematics Department Upton, NY 11973

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BRAGG-GATEWAY	Chief, ADDS Experimental Test Division Army Communications-Electronics Board Attn: ATXA-BD-AD Fort Bragg, NC 28307	COLLINS-PR COLLINS-TIP	Collins Communications Systems Division Rockwell International Mail Stop 401-137 P.O. Box 10462 Dallas, TX 75207
BRL	Armament Research and Development Command Attn: DRDAR-MSG-T Aberdeen Proving Ground, MD 21005	CORADCOM-TIP	Army Communications Research and Development Command Attn: DRDCO-AM Ft. Monmouth, NJ 07703
CCA-TENEX CCA-UNIX	Computer Corporation of America 575 Technology Square Cambridge, MA 02139	CTEC	CTEC, Inc. 7777 Leesburg Pike Falls Church, VA 22043
CCTC	Defense Communications Agency Command and Control Technical Center 11440 Isaac Newton Square Reston, VA 22090	CTO-DDF	Computer Systems Management, Inc. Cybernetics Technology Office Demonstration and Development Facility Suite 102 1300 Wilson Boulevard Arlington, VA 22209
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CINCPAC-TIP	Commander in Chief, Pacific Command CINCPAC Staff J211 P.O. Box 10 Camp H. M. Smith, HI 96861	DCA	Defense Communications Agency Code 530, Arpanet Management Branch Washington, D.C. 20305
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CIT-20 CIT-VAX	California Institute of Technology Computer Science Department Mail Stop 256-80 Pasadena, CA 91125	DEC-2136 DEC-MARLBORO	Digital Equipment Corporation 200 Forest Street Marlborough, MA 01752
CMU-10A CMU-10B CMU-10D CMU-20C	Carnegie-Mellon University Computer Science Department Schenley Park Pittsburgh, PA 15213	DOCB-TIP	Department of Commerce National Telecommunications and Information Administration 325 Broadway Boulder, CO 80303
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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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MIT - MC	Massachusetts Institute of Technology Laboratory for Computer Science Mathlab Group 545 Technology Square Cambridge, MA 02139	NCSC	Naval Coastal Systems Center Code 732 Panama City, FL 32407
MIT - ML	Massachusetts Institute of Technology Knowledge Based Systems 545 Technology Square Cambridge, MA 02139	NDRE NDRE - GATEWAY	Norwegian Defence Research Establishment P.O. Box 25 2007 Kjeller NORWAY
MIT - MULTICS	Massachusetts Institute of Technology Information Processing Services (IPS) Room 39-427 Cambridge, MA 02139	NORSAR - 40A NORSAR - TIP	Royal Norwegian Council for Scientific and Industrial Research NTNF/NORSAR P.O. Box 51 2007 Kjeller NORWAY
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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NRL-CSD	Naval Research Laboratory Code 7503 Washington, D.C. 20375	PENT-UNIX PENTAGON-TIP	Air Force Data Services Center/SFA Room 1D988 The Pentagon Washington, D. C. 20330
NRL-TOPS10	Naval Research Laboratory Code 1730 Washington, D.C. 20375	RADC-MULTICS RADC-TIP	Rome Air Development Center Research and Development Computer Facility (ISF) Griffiss Air Force Base, NY 13441
NRL	Naval Research Laboratory Research Computation Center Code 1700 Washington, D.C. 20375	RADC-TOPS20 RADC-UNIX RADC-XPER	Rome Air Development Center Interactive Processing Section (ISCP) Griffiss Air Force Base, NY 13441
NSWC-DL	Naval Surface Weapons Center Code K31 Dahlgren Laboratory Dahlgren, VA 22448	RAND-AI RAND-TIP RAND-UNIX	The Rand Corporation Rand Computation Center 1700 Main Street Santa Monica, CA 90406
NSWC-WO	Naval Surface Weapons Center White Oak Silver Spring, MD 20910	ROBINS-UNIX	Warner-Robins ALC/MMECV Robins Air Force Base, GA 31098
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NUSC-NPT	Naval Underwater Systems Center Computer Science Department Building 107 Newport, RI 02840	RUTGERS	Rutgers University Laboratory for Computer Science Research (LCSR) Department of Computer Science Hill Center, Busch Campus New Brunswick, NJ 08903
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NWC	Naval Weapons Center China Lake, CA 93555	SCI-ICS	Systems Control, Inc. 1801 Page Mill Road Palo Alto, CA 94304
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SRI-TSC	Menlo Park, CA 94025		Los Angeles, CA 90007
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**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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ACSC	Army Computer Systems Command Mail Stop C-107 Fort Belvoir, VA 22060	AMRDL	Army Air Mobility Research and Development Labs Eustis Directorate Fort Eustis, VA 23604
AFHRL	Air Force Human Resources Laboratory Lowry Air Force Base, CO 80230	ANASC	Analytical Assessments Corporation P.O. Box 9758 Marina Del Rey, CA 90291
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AFLRL	Army Fuel and Lubricants Research Laboratory 8500 Culebra Road P.O. Drawer 28510 San Antonio, TX 78284	ARMTE	Army Material Test and Evaluation (ARMTE) White Sands Missile Range Attn: STEWS - TE - PC White Sands Missile Range, NM 88002
AFSC	Air Force Systems Command Space Division Los Angeles Air Force Station P.O. Box 92960 Worldway Postal Center Los Angeles, CA 90009	ARMY-SIG	Army Signal School Signal Towers Fort Gordon, GA 30905
AIDS	Advanced Information and Decision Systems Suite 286 201 San Antonio Circle Mountain View, CA 94040	ARRADCOM	Army Armament Research and Development Command Dover, NJ 07801
AIRMICS	Army Institute for Research in Management Information in Computer Science CSCS/ATY Suite 900 730 Peachtree Street, N.E. Atlanta, GA 30308	ARSG	Army Research Development and Standardization Group, United Kingdom (RDSG) Edison House 223 Old Marylebone Road London NW 5TH ENGLAND
ALMSA	Army Automated Logistics Management Systems Activity P.O. Box 1578 St. Louis, MO 63188	ASL	U.S. Geological Survey Albuquerque Seismological Laboratory Kirtland Air Force Base East Albuquerque, NM 87115

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BOLLING-AFB	Bolling Air Force Base Office of Scientific Research Washington, D.C. 20332	COMSAT - WASHINGTON	Communications Satellite Company (COMSAT) Transmission Systems Laboratory 950 L'Enfant Plaza, S.W. Washington, D.C. 20024
BRANDEIS	Brandeis University Mathematics Department Waltham, MA 02254	CRTC	Army Cold Regions Test Center APO Seattle, WA 98733
CACI	CACI, Inc. - Federal 1815 North Fort Myer Drive Arlington, VA 22209	CSC	Computer Sciences Corporation Systems Division Mail Code 251 6565 Arlington Boulevard Falls Church, VA 22046
CAI	Cabledata Associates, Inc. 701 Welch Road Palo Alto, CA 94304	DARCOM-ASAS	Project Manager All Source Analysis System Vint Hill Farms Station Building 260, Room 11 Warrenton, VA 22186
CDC	Control Data Corporation 1660 Hotel Circle, North San Diego, California 92108	DDI	Decisions and Designs, Inc. Suite 600 8400 Westpark Drive McLean, VA 22101
CERCOM	Army Electronics Command Graphics System and Technology Branch Research and Development TSA Fort Monmouth, NJ 07703	DECISION	Decision Research 1201 Oak Street Eugene, OR 94701
CIA	Central Intelligence Agency Office of Data Processing Washington, D.C. 20505	DESCOM	Army Depot System Command (DESCOM) Attn: DRSDS-D Chambersburg, PA 17201
CINCLANT	Commander in Chief, Atlantic Command Code J202A Atlantic Command Norfolk, VA 23511	DMAP	Defense Mapping Agency St. Louis Air Force Station St. Louis, MO 63118

**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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DOE	U.S. Department of Energy Office of Computer Services and Telecommunications Management Mail Stop Ca-234 Washington, D.C. 20545	HQNAVMAT	Headquarters Naval Material Command HQNAVMAT (08Y) 2221 Jefferson Davis Highway Arlington, VA 20360
DREA	Defense Research Establishment Atlantic P.O. Box 1012 Dartmouth, Nova Scotia CANADA, B2Y 3Z7	HUACHUCA	Army Communications Command Fort Huachuca, AZ 85613
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FASOTRAGRUPAC	Naval Education and Training Fleet Aviation Training Support Group, Pacific Command Moffett Field, CA 94035	IITRI	IIT Research Institute Beeches Carriage Suite Turin Road Rome, NY 13440
FCC	Federal Communication Commission Office of Science and Technology 2025 M Street, N.W. Washington, D.C. 20554	INFOMEDIA	Infimedia Corporation Suite 303 530 Lytton Avenue Palo Alto, CA 94301
FCDSSA	Fleet Combat Direction Systems Support Activity, Code 0121 San Diego, CA 92147	INRIA	INRIA 78150 Rocquencourt FRANCE
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GSGI	General Systems Group, Inc. 51 Main Street Salem, New Hampshire 03079	KEYDATA	Keydata Corporation 1400 Wilson Boulevard Suite 100 Arlington, VA 22209
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HDL	Harry Diamond Laboratories Attn: DELHD-MI 2800 Powder Mill Road Adelphi, MD 20783	LAO-FORSCOM	Army Logistic Assistance Office Attn: DRXLA-FD Fort McPherson, GA 30330
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LOS-ALAMOS	Los Alamos Scientific Laboratory Mail Stop 535 Los Alamos, NM 87545	NAVSEA	Naval Sea Systems Command Attn: PMS 4082 Washington, D.C. 20362
LSSA	Army Logistics System Support Activity Chambersburg, PA 17201	NCBC	Naval Construction Battalion Center Civil Engineering Laboratory Port Hueneme, CA 93043
MCAAP	McAlester Army Ammunition Plant McAlester, OK 74501	NCC	National Climatic Center Federal Building Asheville, NC 28801
MCAUTO	McDonnell Douglas Automation Company Box 516, Dept. K010 St. Louis, MO 63166	NDU	National Defense University Director, Research Directorate Washington, D.C. 20319
MCCLELLAN	Sacramento Air Logistic Center ALC/MMECF McClellan Air Force Base Sacramento, CA 95652	NFEC	Naval Facilities Engineering Command Western Division P.O. Box 727 San Bruno, CA 94066
MERADCOM	Army Mobility Equipment Research and Development Command Attn: DRXFB-B Fort Belvoir, VA 22060	NMA	Network Management Associates, Inc. 17301 Drey Lane Huntington Beach, CA 92647
MIC	Machine Intelligence Corporation 1120 San Antonio Road Palo Alto, CA 94303	NORDA	Naval Ocean Research and Development Activity NORDA Code 302 St. Louis, MO
NAC	Network Analysis Corporation 130 Steamboat Road Great Neck, NY 11024	NPL	National Physical Laboratory Computer Science Division Teddington, Middlesex ENGLAND
NALCOM	Naval Air Systems Command Code 401-E Room 312 Jefferson Plaza Building 2 1421 Jefferson-Davis Highway Arlington, VA 20361	NSA	National Security Agency Attn: R532 Fort George G. Meade, MD 20755
NARADCOM	Natick Army Research and Development Command Natick, MA 01760	NSF	National Science Foundation Division of Information Systems 1800 G Street, N.W. Washington, D.C. 20550

**ARPANET DIRECTORY
NIC 48000 Nov. 1980**

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NWSC	Naval Weapon Support Center Crane, IN 47522	PROBE	Probe Systems, Inc. 655 North Pastoria Avenue Sunnyvale, CA 94086
OASD	Office of The Secretary of Defense, OASD (C31) Information Systems Room 3B252 The Pentagon Washington, D.C. 20301	PURDUE	Purdue University Department of Electrical Engineering West Lafayette, IN 47907
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HOSTS AND ASSOCIATES

University of California Office of Academic Computing Math-Science Addition Los Angeles, CA 90024	UCLA-CCN	University of Toronto Computer Systems Research Group Toronto, Ontario CANADA M5S 1A1	U-TORONTO
University of Delaware Department of Electrical Engineering Newark, DE 19711	UDEL	University of Utah Department of Computer Science 3160 Merrill Engineering Building Salt Lake City, UT 84112	UTAH-11 UTAH-20 UTAH-TIP
University of Maryland College Park, MD 20742	U-MARYLAND	University of Washington Department of Computer Science Seattle, WA 98195	U-WASH
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University of Pennsylvania Department of Decision Sciences Room W-83, Dietrich Hall Philadelphia, PA 19104	WHARTON-10	Warner-Robins ALC/MMEC Robins Air Force Base, GA 31098	WRALC-TIP
University of Rochester Computer Science Department Rochester, NY 14627	ROCHESTER	Warner-Robins ALC/MMECV Robins Air Force Base, GA 31098	ROBINS-UNIX
University of Southern California Engineering Computer Laboratory Powell Hall of Information Sciences Room 204 Los Angeles, CA 90007	USC-ECL	Western Union Government Systems Division 7916 Westpark Drive McLean, VA 22102	WESTERN-UNION
University of Southern California Information Sciences Institute 4676 Admiralty Way Marina Del Rey, CA 90291	ISI-SPEECH11 ISI-XGP11 USC-ISI USC-ISIB USC-ISIC USC-ISID USC-ISIE USC-ISIF	White Sands Missile Range New Mexico 88002 Wildlife and Natural Resources Office Staff Civil Engineer Building 3 NAS North Island San Diego, CA 92135	WSMR-TIP WNRO
University of Southern California School of Electrical Engineering Powell Hall of Information Sciences Los Angeles, CA 90007	USC-TIP	Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Road Palo Alto, CA 94304	PARC-GATEWAY PARC-MAXC PARC-MAXC2
University of Southern California Social Science Research Institute 950 W. Jefferson Boulevard Los Angeles, CA 90007	USC-SSRI	Yale University Department of Computer Science 10 Hillhouse Avenue New Haven, CT 06520	YALE
University of Texas 2100 Main Building Austin, TX 78712	BCR-108 BCR-113 UTEXAS-20	Yuma Proving Ground Yuma, AZ 85364	YPG
University of Texas Computation Center Austin, TX 78712	UTEXAS-11		

HOST # /IMP # /ASSIGNMENTS

HOST # /IMP # (Dec)	HOST NAME	STATUS
0/1	UCLA-ATS	SERVER, Limited
1/1	UCLA-CCN	SERVER
2/1	UCLA-SECURITY	SERVER, Limited
0/2	SRI-TSC	USER
1/2	SRI-KL	SERVER
2/2	SRI-VIS11	USER
3/2	SRI-NSC11	USER
0/3	NOSC-CC	SERVER (VDH), Limited
1/3	NOSC-SPEL	SERVER, Limited
2/3	LOGICON	USER (VDH)
3/3	NWC	SERVER (VDH)
4/3	NPRDC	SERVER (VDH)
0/4	UTAH-11	USER
2/4	UTAH-TIP	TIP
3/4	UTAH-20	SERVER
0/5	BBNE	SERVER
1/5	BBNG	SERVER
2/5	BBN-PTIP	USER
3/5	BBNA	SERVER
0/6	MIT-MULTICS	SERVER
1/6	MIT-DMS	SERVER
2/6	MIT-AI	SERVER
3/6	MIT-ML	SERVER
0/7	RAND-AI	SERVER
1/7	CHI	SERVER (VDH), Limited
2/7	RAND-TIP	TIP
3/7	RAND-UNIX	SERVER
0/8	NRL	SERVER, Limited
1/8	DTNSRDC	SERVER (VDH)
2/8	NSWC-WO	SERVER (VDH), Limited
3/8	NADC	USER (VDH)
4/8	NSWC-DL	SERVER (VDH), Limited
6/8	NRL-ARCTAN	USER
7/8	NRL-CSD	USER
8/8	NRL-TOPS10	SERVER, Limited
0/9	HARV-10	SERVER, Limited
2/9	NUSC-NPT	SERVER (VDH), Limited
0/10	LL	SERVER, Limited
2/10	LL-XN	SERVER, Limited
3/10	LL-11	SERVER, Limited
0/11	SU-AI	SERVER, Limited
2/11	SU-TIP	TIP
3/11	SU-SCORE	SERVER, Limited
1/12	DTI	SERVER, Limited
0/13	GUNTER-UNIX	SERVER, Limited
2/13	GUNTER-TIP	TIP
0/14	CMU-10B	SERVER, Limited
1/14	CMU-10A	SERVER, Limited
2/14	CMU-10D	SERVER, Limited
3/14	CMU-20C	SERVER, Limited
0/15	I4-TENEX	SERVER
0/16	AMES-67	SERVER
2/16	AMES-TIP	TIP
3/16	AMES-11	USER
0/17	MITRE	SERVER, Limited
1/17	CTO-DDF	SERVER (VDH), Limited
2/17	MITRE-TIP	TIP
0/18	RADC-MULTICS	SERVER
1/18	RADC-XPER	SERVER (VDH), Limited
2/18	RADC-TIP	TIP
3/18	RADC-TOPS20	SERVER, Limited
4/18	ROCHESTER	SERVER (VDH), Limited
5/18	RADC-UNIX	SERVER, Limited

HOST ADDRESSES

HOST # / IMP # (Dec)	HOST NAME	STATUS
0/19	NBS-10	SERVER (VDH), Limited
1/19	WHARTON-10	SERVER (VDH), Limited
2/19	NBS-TIP	TIP
3/19	NBS-UNIX	SERVER, Limited
0/20	CCTC	SERVER, Limited
2/20	DCEC-TIP	TIP
3/20	EDN-UNIX	SERVER, Limited
0/21	LLL-COMP	SERVER, Limited
1/21	LLL-MFE	SERVER, Limited
2/21	LLL-S1	SERVER, Limited
0/22	ISI-SPEECH11	USER
1/22	USC-ISI	SERVER
2/22	USC-ISIC	SERVER
2/23	USC-TIP	TIP
3/23	USC-ECL	SERVER
0/24	HI-MULTICS	SERVER
2/24	GWC-TIP	TIP, Magtape
0/25	NTIA-ITS	SERVER, Limited
1/25	USAFA-GATEWAY	SERVER (VDH), Limited
2/25	DOCB-TIP	TIP
2/26	PENTAGON-TIP	TIP
3/26	PENT-UNIX	USER
0/27	USC-ISID	SERVER
0/28	ARPA-DMS	SERVER, Limited
2/28	ARPA-TIP	TIP
3/28	ARPA-PENGUIN	USER
0/29	BRL	USER
2/30	BBN-TESTIP	TIP, Magtape
0/31	CCA-TENEX	SERVER
2/31	CCA-UNIX	SERVER, Limited
4/31	MIT-DEVMULTICS	SERVER, Limited
0/32	PARC-MAXC	SERVER, Limited
1/32	PARC-GATEWAY	USER
2/32	PARC-MAXC2	SERVER, Limited
3/32	SCI-ICS	SERVER, Limited
0/33	NPS	USER
1/33	FNOC	USER (VDH)
2/33	NPS-TIP	TIP
3/33	FNOC-SECURE	USER (VDH)
0/34	LBL	SERVER
1/34	LBL-UNIX	SERVER, Limited
2/34	BERKELEY	SERVER (VDH), Limited
0/35	NOSC-SECURE2	USER
1/35	NOSC-SDL	SERVER (VDH), Limited
2/35	ACCAT-TIP	TIP
3/35	NOSC-SECURE3	USER
0/36	COINS-TAS	USER
1/36	CINCPACFLT-WM	USER
2/36	CINCPAC-TIP	TIP
0/37	DEC-2136	SERVER
1/37	DEC-MARLBORO	SERVER, Limited
0/38	BRAGG-GATEWAY	USER
2/38	BRAGG-TIP	TIP
0/39	SDAC-CCP	USER
1/39	SDAC-UNIX	SERVER
2/39	SDAC-NEP	USER
3/39	SDAC-44	SERVER
0/40	BBN-NCC	USER
2/40	NCC-TIP	TIP
3/40	BBN-GATEWAY	USER
0/41	NORSAR-40A	USER
1/41	NDRE	USER (VDH)
2/41	NORSAR-TIP	TIP
3/41	NDRE-GATEWAY	USER (VDH)
0/42	LONDON	SERVER, Limited
1/42	LONDON-VDH	SERVER (VDH), Limited
2/42	LONDON-TIP	TIP

HOST # / IMP # (Dec)	HOST NAME	STATUS
3/42	LONDON-GATEWAY	USER
0/43	OFFICE-1	SERVER
1/43	OFFICE-2	SERVER
2/43	OFFICE-3	SERVER
0/44	MIT-XX	SERVER
1/44	LL-ASG	SERVER (VDH)
2/44	MIT-TIP	TIP
3/44	MIT-MC	SERVER
0/45	MOFFETT-ARC	SERVER, Limited
1/45	MOFFETT-SUBNET	USER
0/46	COLLINS-PR	USER
2/46	COLLINS-TIP	TIP
0/47	WPAFB	SERVER, Limited
1/47	WPAFB-AFWAL	SERVER (VDH)
2/47	WPAFB-TIP	TIP
0/48	AFWL	SERVER, Limited
2/48	AFWL-TIP	TIP
3/48	SANDIA	USER (VDH)
0/49	BBNB	SERVER
1/49	BBND	SERVER, Limited
2/49	BBN-SPEECH-11	USER
3/49	BBNC	SERVER
1/50	UDEL	SERVER (VDH)
2/50	DARCOM-PTIP	TIP
0/51	DARCOM-KA	SERVER
1/51	SRI-C3PO	USER
2/51	SRI-UNIX	SERVER, Limited
3/51	SRI-R2D2	USER
0/52	ISI-XGP11	USER
1/52	USC-ISIE	SERVER
2/52	USC-ISIF	SERVER
3/52	USC-ISIB	SERVER, Limited
0/53	AFSC-AD	SERVER, Limited
1/53	NCSC	USER (VDH)
2/53	AFSC-DEV	SERVER, Limited
3/53	MARTIN	USER (VDH)
0/54	CIT-20	SERVER
1/54	CIT-VAX	USER
0/55	ANL	SERVER
0/56	SUMEX-AIM	SERVER
1/56	SU-ISL	SERVER, Limited
0/57	TYCHO	USER
1/57	COINS-GATEWAY	SERVER, Limited
0/58	NYU	SERVER
1/58	BNL	SERVER (VDH)
2/58	RUTGERS	SERVER, Limited
3/58	NUSC	USER (VDH)
0/59	ETAC	USER
0/60	CENTACS-MMP	USER
2/60	CORADCOM-TIP	TIP
3/60	CENTACS-TF	USER
2/61	STLA-PTIP	TIP
0/62	UTEXAS-11	SERVER, Limited
1/62	UTEXAS-20	USER
2/62	BCR-108	USER
3/62	BCR-113	USER
0/63	BBN-UNIX	SERVER, Limited
1/63	BBN-SAC	USER
2/64	WRALC-TIP	TIP
3/64	ROBINS-UNIX	USER
1/65	AFSC-SD-TIP	TIP
1/66	AFGL	SERVER, Limited
2/66	AFGL-TIP	TIP
0/67	AFSC-HQ	SERVER
1/67	AFSC-HQ-TIP	TIP
2/68	USGS1-TIP	TIP
2/69	USGS2-TIP	TIP

HOST ADDRESSES

HOST # / IMP # (Dec)	HOST NAME	STATUS
2/70	USGS3-TIP	TIP
0/71	BBNF	SERVER
0/72	BBN-NU	SERVER, Limited
2/72	BBN-TAC	TAC
2/74	WSMR-TIP	TIP
0/75	YPG	USER

COMPUTER CONFIGURATIONS

EXPLANATION

This table is divided into two parts. The first part is organized by Host Name Acronyms and the second by Host Address. (For a definition of host name acronyms, see the HOST ACRONYMS table.)

For each host listed there is a description of the computer configuration for that host. The first computer mentioned in this description is attached to the IMP and is by definition the 'host' computer. Other computers are attached to the host computer as indicated by the arrows.

Text enclosed in parentheses () after the name of a computer describes the operating system in use on that computer.

Type designations are:

S = Server host

U = User host

T = TIP

VDH = Very distant host

NOTE: The configuration of machines on the ARPANET changes often, so this table undoubtedly contains inaccuracies. Send corrections or additions to NIC@SRI-KL.

ORGANIZED BY HOST NAME

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
ACCAT-TIP	2/35	T	H-316
AFGL	1/66	S	PDP-11/50(RSX11M) -> CDC-6600(NOS/BE)
AFGL-TIP	2/66	T	Pluribus
AFSC-AD	0/53	S	PDP-11/45(RSX11M) -> CDC-6600(NOS/BE)
AFSC-DEV	2/53	S	PDP-11/44(RSX11M)
AFSC-HQ	0/67	S	DEC-2020T
AFSC-HQ-TIP	1/67	T	Pluribus
AFSC-SD-TIP	1/65	T	Pluribus
AFWL	0/48	S	PDP-11/50(RSX-11M + SAMNET NFE) -> CYBER-176(NOS/BE) -> Local net and SAMNET -> 3 CYBER-203s
AFWL-TIP	2/48	T	MLC -> CDC-2550 (CCP) -> CDC-6600 (NOS/BE) -> Local net and SAMNET
AMES-11	3/16	U	PDP-11/34(ELF) -> 2 VAX 11/780(VMS)
AMES-67	0/16	S	IBM-360/67(TSS/360)
AMES-TIP	2/16	T	H-316
ANL	0/55	S	VARIAN-73 -> IBM-360/75(TSO) -> IBM-370/195(OS/MVT,ASP) -> IBM-3033(VM/CMS,OS/MVT) -> IBM-3033(WYLBUR,OS/MVT)
ARPA-DMS	0/28	S	HP-3000(DMS)
ARPA-PENGUIN	3/28	S	PDP-11/40(ELF) -> Xerox Printer
ARPA-TIP	2/28	T	H-316
BBN-GATEWAY	3/40	U	PDP-11/40(ELF) -> SATNET
BBN-NCC	0/40	U	H-316
BBN-NU	0/72	S	PDP-11/70
BBN-PTIP	2/5	U	Pluribus (Gateway)
BBN-SAC	1/63	U	PDP-11/34
BBN-SPEECH-11	2/49	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B -> CSPI MAP-300
BBN-TAC	2/72	T	TAC
BBN-TESTIP	2/30	T	Pluribus
BBN-UNIX	0/63	S	Pluribus(PLI) -> PDP-11/70(UNIX)
BBNA	3/5	S	DEC-2050T(TOPS-20AN)
BBNB	0/49	S	DEC-10(TENEX)
BBNC	3/49	S	DEC-10(TENEX)
BBND	1/49	S	DEC-1090T(TOPS-20AN)
BBNE	0/5	S	DEC-10(TENEX)
BBNF	0/71	S	DEC-2040T(TOPS-20)
BBNG	1/5	S	DEC-2060T(TOPS-20AN)
BCR-108	2/62	U	BCR
BCR-113	3/62	U	BCR
BERKELEY	2/34	S	PDP-11/70(UNIX)
BNL	1/58	VDH	PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE,INTERCOM) -> CDC-7600(SCOPE)
BRAGG-GATEWAY	0/38	U	LSI-11/02(MOS) -> LSI-11/02 -> PDP-11/34 -> PDP-11/34
BRAGG-TIP	2/38	T	H-316
BRL	0/29	U	PDP-11/40(ANTS)
CCA-TENEX	0/31	S	DEC-10(TENEX, DATALANGUAGE)
CCA-UNIX	2/31	S	VAX-11/780(UNIX)
CCTC	0/20	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
CENTACS-MMP	0/60	U	PDP-11/34(MOS) -> 7 CDC-5600s(MPX-RT) (multiprocessor)
CENTACS-TF	3/60	U	PDP-11/34(MOS) -> various machines
CHI	1/7	VDH	MP-32-> MP-32A -> AP-90(SIGNAL)
CINCPAC-TIP	2/36	T	H-316
CINCPACFLT-WM	1/36	U	RSM(PLI) -> PDP-11/70(UNIX)
CIT-20	0/54	S	DEC-2060(TOPS-20)

COMPUTERS BY HOST

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
CIT-VAX	1/54	U	VAX-11/780(UNIX)
CMU-10A	1/14	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
CMU-10B	0/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-10D	2/14	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
CMU-20C	3/14	S	DEC-2060T(TOPS-20) -> PDP-11 -> terminals
COINS-GATEWAY	1/57	S	Pluribus(PLI) -> PDP-11/34(UNIX)
COINS-TAS	0/36	S	Pluribus(PLI) -> PDP-11/45(UNIX)
COLLINS-PR	0/46	U	PDP-11/34(RT-11 3B)
COLLINS-TIP	2/46	T	H-316
CORADCOM-TIP	2/60	T	H-316
CTO-DDF	1/17	S VDH	PDP-11/70(UNIX)
DARCOM-KA	0/51	S	DEC-10(TENEX)
DARCOM-PTIP	2/50	T	Pluribus
DCEC-TIP	2/20	T	H-316
DEC-2136	0/37	S	DEC-2060T(TOPS-20AN)
DEC-MARLBORO	1/37	S	DEC-2060T(TOPS20-AN)
DOCB-TIP	2/25	T	H-316
DTI	1/12	S	PDP-11/70(UNIX)
DTNSRDC	1/8	S VDH	PDP-11/40(ELF) -> CDC-6600
EDN-UNIX	3/20	S	LSI-11(MOS) -> PDP-11/70(UNIX) -> PDP-11/40 -> LSI-110 -> LSI-111
ETAC	0/59	U	PDP-11/45(ELF)
FNOC	1/33	U VDH	PDP-11/60(RSX11M) -> CDC-6500(NOS/BE)
FNOC-SECURE	3/33	U VDH	Pluribus(PLI) -> PDP-11/34(RSX11M) -> CDC-6500(NOS/BE)
GUNTER-TIP	2/13	T	H-316
GUNTER-UNIX	0/13	S	PDP-11/35(UNIX)
GWC-TIP	2/24	T	H-316
HARV-10	0/9	S	DEC-10(TOPS-10)
HI-MULTICS	0/24	S	H68/80(MULTICS)
I4-TENEX	0/15	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s -> ILLIAC-IV(ACL)
ISI-SPEECH11	0/22	U	PDP-11/45(EPOS, UNIX) -> FPS AP-120B
ISI-XGP11	0/52	U	PDP-11/40(ELF) -> Xerox Penguin Printer
LBL	0/34	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
LBL-UNIX	1/34	S	PDP-11/70(UNIX)
LL	0/10	S	AMDAHL 470V/7(VM/370)
LL-11	3/10	S	PDP-11/45(UNIX)
LL-ASG	1/44	S VDH	PDP-11/50(UNIX)
LL-XN	2/10	S	PDP-11/70(UNIX)
LLL-COMP	0/21	S	PDP-11/70(UNIX)
LLL-MFE	1/21	S	DEC-1070(TOPS-10)
LLL-S1	2/21	S	S-1
LOGICON	2/3	U VDH	PDP-11/45(UNIX)
LONDON	0/42	S	PDP-9 -> IBM-360/195s dual processor (MVT and HASP) -> EPSS Net
LONDON-GATEWAY	3/42	U	LSI-11(MOS) -> PDP-11/35(MOS) -> SATNET -> LSI-11(MOS) -> LSI-11(MOS) -> RSRE PPSN -> LSI-11(MOS) -> PDP-11/34(UNIX) -> 2 LSI-11s(MOS)
LONDON-TIP	2/42	T	H-316
LONDON-VDH	1/42	S VDH	PDP-9 -> EPSS -> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
MARTIN	3/53	U VDH	PDP-11/45(RSX11M)
MIT-AI	2/6	S	DEC-10(ITS) -> PDP-11/20 -> Terminals

HOST NAME HOST/IMP TYPE CONFIGURATION/OPERATING SYSTEM
(Dec)

MIT-DEVMULTICS	4/31	S	H-68/80(Multics)
MIT-DMS	1/6	S	DEC-1040(ITS)
MIT-MC	3/44	S	DEC-1080(ITS)
MIT-ML	3/6	S	DEC-10(ITS)
MIT-MULTICS	0/6	S	HONEYWELL-6180(Multics)
MIT-TIP	2/44	T	H-316
MIT-XX	0/44	S	DEC-2060T(TOPS-20AN)
MITRE	0/17	S	PDP-11/70(UNIX)
MITRE-TIP	2/17	T	H-316
MOFFETT-ARC	0/45	S	DEC-10(TENEX)
MOFFETT-SUBNET	1/45	U	Pluribus(PLI) -> DEC-10(TENEX)
NADC	3/8	U VDH	PDP-11/40(ELF) -> CDC-6600/CYBER 175(KRONOS, NOS)
NBS-10	0/19	S VDH	DEC-1050T(TOPS-10)
NBS-TIP	2/19	T	H-316
NBS-UNIX	3/19	S	PDP-11/45(UNIX) -> Inhouse network
NCC-TIP	2/40	T	H-316
NCSC	1/53	U VDH	PDP-11/40(UNIX) -> B-6800(MCP 31.280)
NDRE	1/41	U VDH	NORD-10(SINTRAN-3)
NDRE-GATEWAY	3/41	U VDH	PDP-11/40(ELF) -> SATNET
NORSAR-40A	0/41	U	IBM 360/40
NORSAR-TIP	2/41	T	H-316
NOSC-CC	0/3	S VDH	PDP-11/40(UNIX) -> UNIVAC-1100/82
NOSC-SDL	1/35	S VDH	PDP-11/40(UNIX)
NOSC-SECURE2	0/35	U	Pluribus(PLI) -> DEC-10(TENEX) -> DEC-2040(TOPS-20) -> PDP-11/70(UNIX)
NOSC-SECURE3	3/35	U	PDP-11/70(UNIX) -> DEC-2040T(TOPS-20AN)
NOSC-SPEL	1/3	S	Pluribus(PLI) -> PDP-11/70(UNIX-PWB)
NPRDC	4/3	S VDH	PDP-11/70(UNIX)
NPS	0/33	U	Pluribus(PLI) -> PDP-11/70(UNIX)
NPS-TIP	2/33	T	H-316
NRL	0/8	S	PDP-11/40(UNIX) -> TI-ASC(GPOS)
NRL-ARCTAN	6/8	S U	PDP-11/40(RSX11)
NRL-CSD	7/8	U	PDP-11/45(UNIX, others)
NRL-TOPS10	8/8	S	PDP-10(TOPS10)
NSWC-DL	4/8	S VDH	PDP-11/40(RSX-11M) -> CDC-6700(SCOPE 3.4)
NSWC-WO	2/8	S VDH	CDC-6500(NOS)
NTIA-ITS	0/25	S	PDP-11/40(UNIX)
NUSC	3/58	U VDH	PDP-11/40(ELF) -> VAX-11/780
NUSC-NPT	2/9	S VDH	PDP-11/70(UNIX)
NWC	3/3	S VDH	PDP-11(ELF) -> UNIVAC-1110(EXEC-8)
NYU	0/58	S	PDP-11/40(ELF) -> CDC-6600(NOS) -> VAX-11/780(VMS)
OFFICE-1	0/43	S	DEC-10(TENEX)
OFFICE-2	1/43	S	DEC-10(TENEX)
OFFICE-3	2/43	S	DEC-10(TENEX)
PARC-GATEWAY	1/32	U	NOVA-800 -> Internal Net
PARC-MAXC	0/32	S	MAXC(TENEX)
PARC-MAXC2	2/32	S	MAXC(TENEX)
PENT-UNIX	3/26	U	PDP-11/35(UNIX)
PENTAGON-TIP	2/26	T	H-316
RADC-MULTICS	0/18	S	HONEYWELL-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
RADC-TIP	2/18	T	Pluribus
RADC-TOPS20	3/18	S	DEC-2040T(TOPS-20AN)
RADC-UNIX	5/18	S	PDP-11/45(UNIX)
RADC-XPER	1/18	S VDH	PDP-11/40(UNIX)
RAND-AI	0/7	S	DEC-2060T(TOPS-20AN)
RAND-TIP	2/7	T	H-316
RAND-UNIX	3/7	S	PDP-11/45(UNIX) -> VAX(UNIX)
ROBINS-UNIX	3/64	U	PDP-11/45(UNIX)

COMPUTERS BY HOST

HOST NAME	HOST/IMP TYPE (Dec)		CONFIGURATION/OPERATING SYSTEM
ROCHESTER	4/18	S VDH	ECLIPSE S200(RIG)
RUTGERS	2/58	S	DEC-2050T(TOPS-20AN)
SANDIA	3/48	U VDH	DEC-1091(TOPS-20AN)
SCI-ICS	3/32	S	Foonly-2(TENEX)
SDAC-44	3/39	S	IBM-360/44(PS/44)
SDAC-CCP	0/39	U	CCP -> Pluribus
SDAC-NEP	2/39	U	IBM-360/40(DOS/360)
SDAC-UNIX	1/39	S	PDP-11/70(UNIX)
SRI-C3PO	1/51	U	LSI-11/02(MOS) -> LSI-11/02(MOS) -> PDP-11/34(ELF) -> LSI-11/02(MOS)
SRI-KL	1/2	S	DEC-1090T(TOPS-20AN)
SRI-NSC11	3/2	U	PDP-11/40 (EPOS) -> CHI-5 Signal Processor (DOS)
SRI-R2D2	3/51	U	LSI-11/02(MOS) -> LSI-11/02(MOS) -> PRNET -> PDP-11/40(ELF) -> PDP-11/70(KSOS)
SRI-TSC	0/2	U	PDP-11/40(UNIX)
SRI-UNIX	2/51	S	PDP-11/45(UNIX)
SRI-VIS11	2/2	U	PDP-11/10
STLA-PTIP	2/61	T	Pluribus-TIP
SU-AI	0/11	S	DEC-1080(WAITS) -> DEC-10(P2SYS) -> PDP-11/45 -> SPS-41 -> VAX-11/780(UNIX)
SU-ISL	1/56	S	LSI-11 -> PDP-11/70(UNIX) -> VAX-11/780(UNIX)
SU-SCORE	3/11	S	DEC-2060(TOPS-20AN) -> VAX-11/780(UNIX)
SU-TIP	2/11	T	H-316
SUMEX-AIM	0/56	S	DEC-1077(TENEX)
TYCHO	0/57	U	PDP-11/34(UNIX)
UCLA-ATS	0/1	S	PDP-11/45(UNIX) -> Local Net
UCLA-CCN	1/1	S	IBM-370/3033(OS/MVS and TSO)
UCLA-SECURITY	2/1	S	PDP-11/45(UNIX) -> Local Megabit Ring Net
UDEL	1/50	S VDH	PDP-11/70(UNIX)
USAFA-GATEWAY	1/25	S VDH	PDP-11/45(UNIX)
USC-ECL	3/23	S	DEC-10(TENEX)
USC-ISI	1/22	S	DEC-10(TENEX)
USC-ISIB	3/52	S	DEC-1090T(TOPS-20AN)
USC-ISIC	2/22	S	DEC-1090T(TOPS-20AN)
USC-ISID	0/27	S	DEC-2060T(TOPS-20AN)
USC-ISIE	1/52	S	DEC-1090T(TOPS-20AN)
USC-ISIF	2/52	S	DEC-1090T(TOPS-20AN)
USC-TIP	2/23	T	H-316
USGS1-TIP	2/68	T	Pluribus
USGS2-TIP	2/69	T	Pluribus
USGS3-TIP	2/70	T	Pluribus
UTAH-11	0/4	U	PDP-11/45(RSX11M,[UNIX]) -> FPS-AP120B
UTAH-20	3/4	S	DEC-2060T(TOPS-20AN)
UTAH-TIP	2/4	T	H-316
UTEXAS-11	0/62	S	PDP-11/70
UTEXAS-20	1/62	S	DEC-2060
WHARTON-10	1/19	S VDH	Pluribus(VDA) -> DEC-10(TOPS-10)
WPAFB	0/47	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
WPAFB-AFWAL	1/47	S VDH	Pluribus(VDA) -> DEC-1077(TOPS-10)
WPAFB-TIP	2/47	T	H-316
WRALC-TIP	2/64	T	H-316
WSMR-TIP	2/74	T	H-316
YPG	0/75	U	PDP-11/40(ANTS)

ORGANIZED BY HOST ADDRESS

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/1	UCLA-ATS	S	PDP-11/45(UNIX) -> Local Net
1/1	UCLA-CCN	S	IBM-370/3033(OS/MVS and TSO)
2/1	UCLA-SECURITY	S	PDP-11/45(UNIX) -> Local Megabit Ring Net
0/2	SRI-TSC	S	PDP-11/40(UNIX)
1/2	SRI-KL	S	DEC-1090T(TOPS-20AN)
2/2	SRI-VIS11	S	PDP-11/10
3/2	SRI-NSC11	S	PDP-11/40(EPOS) -> CHI-5 Signal Processor (DOS)
0/3	NOSC-CC	VDH	PDP-11/40(UNIX) -> UNIVAC-1100/82
1/3	NOSC-SPEL	S	Pluribus(PLI) -> PDP-11/70(UNIX-PWB)
2/3	LOGICON	VDH	PDP-11/45(UNIX)
3/3	NWC	VDH	PDP-11(ELF) -> UNIVAC-1110(EXEC-8)
4/3	NPRDC	VDH	PDP-11/70(UNIX)
0/4	UTAH-11	S	PDP-11/45(RSX11M,[UNIX]) -> FPS-AP120B
2/4	UTAH-TIP	T	H-316
3/4	UTAH-20	S	DEC-2060T(TOPS-20AN)
0/5	BBNE	S	DEC-10(TENEX)
1/5	BBNG	S	DEC-2060T(TOPS-20AN)
2/5	BBN-PTIP	S	Pluribus (Gateway)
3/5	BBNA	S	DEC-2050T(TOPS-20AN)
0/6	MIT-MULTICS	S	HONEYWELL-6180(Multics)
1/6	MIT-DMS	S	DEC-1040(ITS)
2/6	MIT-AI	S	DEC-10(ITS)-> PDP-11/20 -> Terminals
3/6	MIT-ML	S	DEC-10(ITS)
0/7	RAND-AI	S	DEC-2060T(TOPS-20AN)
1/7	CHI	VDH	MP-32-> MP-32A -> AP-90(SIGNAL)
2/7	RAND-TIP	T	H-316
3/7	RAND-UNIX	S	PDP-11/45(UNIX) -> VAX(UNIX)
0/8	NRL	S	PDP-11/40(UNIX) -> TI-ASC(GPOS)
1/8	DTNSRDC	S	VDP-11/40(ELF) -> CDC-6600
2/8	NSWC-WO	S	CDC-6500(NOS)
3/8	NADC	VDH	PDP-11/40(ELF) -> CDC-6600/CYBER 175(KRONOS,NOS)
4/8	NSWC-DL	VDH	PDP-11/40(RSX-11M) -> CDC-6700(SCOPE 3.4)
6/8	NRL-ARCTAN	S	PDP-11/40(RSX11)
7/8	NRL-CSD	S	PDP-11/45(UNIX, others)
8/8	NRL-TOPS10	S	PDP-10(TOPS10)
0/9	HARV-10	S	DEC-10(TOPS-10)
2/9	NUSC-NPT	VDH	PDP-11/70(UNIX)
0/10	LL	S	AMDAHL 470V/7(VM/370)
2/10	LL-XN	S	PDP-11/70(UNIX)
3/10	LL-11	S	PDP-11/45(UNIX)
0/11	SU-AI	S	DEC-1080(WAITS) -> DEC-10(P2SYS) -> PDP-11/45 -> SPS-41 -> VAX-11/780(UNIX)
2/11	SU-TIP	T	H-316
3/11	SU-SCORE	S	DEC-2060(TOPS-20AN) -> VAX-11/780(UNIX)
1/12	DTI	S	PDP-11/70(UNIX)
0/13	GUNTER-UNIX	S	PDP-11/35(UNIX)
2/13	GUNTER-TIP	T	H-316
0/14	CMU-10B	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
1/14	CMU-10A	S	DEC-1080T(TOPS-10) -> PDP-11 -> terminals
2/14	CMU-10D	S	DEC-1050T(TOPS-10) -> PDP-11 -> terminals
3/14	CMU-20C	S	DEC-2060T(TOPS-20) -> PDP-11 -> terminals
0/15	I4-TENEX	S	DEC-10(TENEX) -> ILLIAC-IV(ACL) -> B-6700 -> ILLIAC-IV(ACL) -> PDP-11s-> ILLIAC-IV(ACL)
0/16	AMES-67	S	IBM-360/67(TSS/360)
2/16	AMES-TIP	T	H-316
3/16	AMES-11	S	PDP-11/34(ELF) -> 2 VAX 11/780(VMS)
0/17	MITRE	S	PDP-11/70(UNIX)
1/17	CTO-DDF	VDH	PDP-11/70(UNIX)
2/17	MITRE-TIP	T	H-316

COMPUTERS BY HOST

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
0/18	RADC-MULTICS	S	HONEYWELL-6180(MULTICS) SATELLITE <- STARAN S-1000P SATELLITE <- PDP-11/45
1/18	RADC-XPER	S VDH	PDP-11/40(UNIX)
2/18	RADC-TIP	T	Pluribus
3/18	RADC-TOPS20	S	DEC-2040T(TOPS-20AN)
4/18	ROCHESTER	S VDH	ECLIPSE S200(RIG)
5/18	RADC-UNIX	S	PDP-11/45(UNIX)
0/19	NBS-10	S VDH	DEC-1050T(TOPS-10)
1/19	WHARTON-10	S VDH	Pluribus(VDA) -> DEC-10(TOPS-10)
2/19	NBS-TIP	T	H-316
3/19	NBS-UNIX	S	PDP-11/45(UNIX) -> Inhouse network
0/20	CCTC	S	PDP-11/70(UNIX) -> HONEYWELL-6000(GCOS)
2/20	DCEC-TIP	T	H-316
3/20	EDN-UNIX	S	LSI-11(MOS) -> PDP-11/70(UNIX) -> PDP-11/40 -> LSI-110 -> LSI-111
0/21	LLL-COMP	S	PDP-11/70(UNIX)
1/21	LLL-MFE	SS	DEC-1070(TOPS-10)
2/21	LLL-S1	SS	S-1
0/22	ISI-SPEECH11	U	PDP-11/45(EPOS, UNIX) -> FPS AP-120B
1/22	USC-ISI	SS	DEC-10(TENEX)
2/22	USC-ISIC	S	DEC-1090T(TOPS-20AN)
2/23	USC-TIP	ST	H-316
3/23	USC-ECL	S	DEC-10(TENEX)
0/24	HI-MULTICS	S	H68/80(MULTICS)
2/24	GWC-TIP	T	H-316
0/25	NTIA-ITS	S	PDP-11/40(UNIX)
1/25	USAFA-GATEWAY	S VDH	PDP-11/45(UNIX)
2/25	DOCB-TIP	T	H-316
2/26	PENTAGON-TIP	T	H-316
3/26	PENT-UNIX	UU	PDP-11/35(UNIX)
0/27	USC-ISID	SS	DEC-2060T(TOPS-20AN)
0/28	ARPA-DMS	S	HP-3000(DMS)
2/28	ARPA-TIP	T	H-316
3/28	ARPA-PENGUIN	U	PDP-11/40(ELF) -> Xerox Penguin Printer
0/29	BRL	UU	PDP-11/40(ANTS)
2/30	BBN-TESTIP	T	H-316 or Pluribus
0/31	CCA-TENEX	S	DEC-10(TENEX, DATALANGUAGE)
2/31	CCA-UNIX	S	VAX-11/780(UNIX)
4/31	MIT-DEVMULTICS	S	H-68/80(Multics)
0/32	PARC-MAXC	SS	MAXC(TENEX)
1/32	PARC-GATEWAY	UU	NOVA-800 -> Internal Net
2/32	PARC-MAXC2	SS	MAXC(TENEX)
3/32	SCI-ICS	S	Foonly-2(TENEX)
0/33	NPS	U	Pluribus(PLI) -> PDP-11/70(UNIX)
1/33	FNOC	U VDH	PDP-11/60(RSX11M) -> CDC-6500(NOS/BE)
2/33	NPS-TIP	T	H-316
3/33	FNOC-SECURE	U VDH	Pluribus(PLI) -> PDP-11/34(RSX11M) -> CDC-6500(NOS/BE)
0/34	LBL	S	CDC-6400(BKY) -> CDC-6600(BKY) -> CDC-7600(BKY)
1/34	LBL-UNIX	S	PDP-11/70(UNIX)
2/34	BERKELEY	S VDH	PDP-11/70(UNIX)
0/35	NOSC-SECURE2	U	Pluribus(PLI) -> DEC-10(TENEX) -> DEC-2040(TOPS-20) -> PDP-11/70(UNIX)
1/35	NOSC-SDL	S VDH	PDP-11/40(UNIX)
2/35	ACCAT-TIP	T	H-316
3/35	NOSC-SECURE3	U	Pluribus(PLI) -> PDP-11/70(UNIX) -> DEC-2040T(TOPS-20AN)
0/36	COINS-TAS	U	Pluribus(PLI) -> PDP-11/45(UNIX)

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
1/36	CINCPACFLT-WM	U	RSM (PLI) -> PDP-11/70(UNIX)
2/36	CINCPAC-TIP	T	H-316
0/37	DEC-2136	S	DEC-2060T(TOPS-20AN)
1/37	DEC-MARLBORO	S	DEC-2060T(TOPS20-AN)
0/38	BRAGG-GATEWAY	U	LSI-11/02(MOS) -> LSI-11/02 -> PDP-11/34 -> PDP-11/34
2/38	BRAGG-TIP	T	H-316
0/39	SDAC-CCP	U	CCP -> Pluribus
1/39	SDAC-UNIX	S	PDP-11/70(UNIX)
2/39	SDAC-NEP	S	IBM-360/40(DOS/360)
3/39	SDAC-44	S	IBM-360/44(PS/44)
0/40	BBN-NCC	S	H-316
2/40	NCC-TIP	T	H-316
3/40	BBN-GATEWAY	U	PDP-11/40(ELF) -> SATNET
0/41	NORSAR-40A	U	IBM 360/40
1/41	NDRE	U	VDH NORD-10(SINTRAN-3)
2/41	NORSAR-TIP	T	H-316
3/41	NDRE-GATEWAY	U	VDH PDP-11/40(ELF) -> SATNET
0/42	LONDON	S	PDP-9 -> IBM-360/195s dual processor (MVT and HASP) -> EPSS Net
1/42	LONDON-VDH	S	VDH PDP-9 -> EPSS -> ICL-4/72 -> CDC-6000/7000(SCOPE, INTERCOM)
2/42	LONDON-TIP	T	H-316
3/42	LONDON-GATEWAY	U	LSI-11(MOS) -> PDP-11/35(MOS) -> SATNET -> LSI-11(MOS) -> LSI-11(MOS) -> RSRE PPSN -> LSI-11(MOS) -> PDP-11/34(UNIX) -> 2 LSI-11s(MOS)
0/43	OFFICE-1	S	DEC-10(TENEX)
1/43	OFFICE-2	S	DEC-10(TENEX)
2/43	OFFICE-3	S	DEC-10(TENEX)
0/44	MIT-XX	S	DEC-2060T(TOPS-20AN)
1/44	LL-ASG	S	VDH PDP-11/50(UNIX)
2/44	MIT-TIP	T	H-316
3/44	MIT-MC	S	DEC-1080(ITS)
0/45	MOFFETT-ARC	S	DEC-10(TENEX)
1/45	MOFFETT-SUBNET	U	Pluribus(PLI) -> DEC-10(TENEX)
0/46	COLLINS-PR	U	PDP-11/34(RT-11 3B)
2/46	COLLINS-TIP	T	H-316
0/47	WPAFB	S	PDP-11/50(RSX11M) -> CDC-6600(SCOPE)
1/47	WPAFB-AFWAL	S	VDH Pluribus(VDA) -> DEC-1077(TOPS-10)
2/47	WPAFB-TIP	T	H-316
0/48	AFWL	S	PDP-11/50(RSX-11M + SAMNET NFE) -> CYBER-176(NOS/BE) -> Local net and SAMNET -> 3 CYBER-203s
2/48	AFWL-TIP	T	MLC -> CDC-2550 (CCP) -> CDC-6600 (NOS/BE) -> Local net and SAMNET
3/48	SANDIA	U	VDH DEC-1091(TOPS-20AN)
0/49	BBNB	S	DEC-10(TENEX)
1/49	BBND	S	DEC-1090T(TOPS-20AN)
2/49	BBN-SPEECH-11	U	PDP-11/40(RT11) -> SPS-41(EPOS) -> FPS AP-120B -> CSPI MAP-300
3/49	BBNC	S	DEC-10(TENEX)
1/50	UDEL	S	VDH PDP-11/70(UNIX)
2/50	DARCOM-PTIP	T	Pluribus
0/51	DARCOM-KA	S	DEC-10(TENEX)

COMPUTERS BY HOST

ADDR. (Dec)	HOSTNAME	TYPE	CONFIGURATION/OPERATING SYSTEM
1/51	SRI-C3PO	U	LSI-11/02(MOS) -> LSI-11/02(MOS) -> PDP-11/34(ELF) -> LSI-11/02(MOS)
2/51 3/51	SRI-UNIX SRI-R2D2	S U	PDP-11/45(UNIX) LSI-11/02(MOS) -> LSI-11/02(MOS) -> PRNET -> PDP-11/40(ELF) -> PDP-11/70(KSOS)
0/52 1/52 2/52 3/52 0/53 1/53 2/53 3/53 0/54 1/54 0/55	ISI-XGP11 USC-ISIE USC-ISIF USC-ISIB AFSC-AD NCSC AFSC-DEV MARTIN CIT-20 CIT-VAX ANL	U S S S S U S U S S	PDP-11/40(ELF) -> Xerox Penguin Printer DEC-1090T(TOPS-20AN) DEC-1090T(TOPS-20AN) DEC-1090T(TOPS-20AN) PDP-11/45(RSX11M) -> CDC-6600(NOS/BE) PDP-11/40(UNIX) -> B-6800(MCP 31.280) PDP-11/44(RSX11M) PDP-11/45(RSX11M) DEC-2060(TOPS-20) VAX-11/780(UNIX) VARIAN-73 -> IBM-360/75(TSO) -> IBM-370/195(OS/MVT,ASP) -> IBM-3033(VM/CMS,OS/MVT) -> IBM-3033(WYLBUR,OS/MVT)
0/56 1/56	SUMEX-AIM SU-ISL	S S	DEC-1077(TENEX) LSI-11 -> PDP-11/70(UNIX) -> VAX-11/780(UNIX)
0/57 1/57 0/58	TYCHO COINS-GATEWAY NYU	U S S	PDP-11/34(UNIX) Pluribus(PLI) -> PDP-11/34(UNIX) PDP-11/40(ELF) -> CDC-6600(NOS) -> VAX-11/780(VMS)
1/58	BNL	S VDH	PDP-11/34(ELF) -> 2 CDC-6600s(SCOPE, INTERCOM) -> CDC-7600(SCOPE)
2/58 3/58 0/59 0/60	RUTGERS NUSC ETAC CENTACS-MMP	S U U U	DEC-2050T(TOPS-20AN) PDP-11/40(ELF) -> VAX 11/780 PDP-11/45(ELF) PDP-11/34(MOS) -> 7 CDC-5600s(MPX-RT) (multiprocessor)
2/60 3/60 2/61 0/62 1/62 2/62 3/62 0/63 1/63 2/64 3/64 1/65 1/66 2/66 0/67 1/67 2/68 2/69 2/70 0/71 0/72 2/72 2/74 0/75	CORADCOM-TIP CENTACS-TF STLA-PTIP UTEXAS-11 UTEXAS-20 BCR-108 BCR-113 BBN-UNIX BBN-SAC WRALC-TIP ROBINS-UNIX AFSC-SD-TIP AFGL AFGL-TIP AFSC-HQ AFSC-HQ-TIP USGS1-TIP USGS2-TIP USGS3-TIP BBNF BBN-NU BBN-TAC WSMR-TIP YPG	T T T S U U U S U T T T T T T T T T T T T T T U	H-316 PDP-11/34(MOS) -> various machines Pluribus-TIP PDP-11/70 DEC-2060 BCR BCR Pluribus(PLI) -> PDP-11/70(UNIX) PDP-11/34 H-316 PDP-11/45(UNIX) Pluribus PDP-11/50(RSX11M) -> CDC-6600(NOS/BE) Pluribus DEC-2020T Pluribus Pluribus Pluribus Pluribus DEC-2040T(TOPS-20) PDP-11/70 H-316 H-316 PDP-11/40(ANTS)

COMPUTERS BY MANUFACTURER

MANUFACTURER COMPUTER (OP-SYS)	HOST NAME	ADDR.	STATUS
		(Dec)	

BOLT BERANEK AND NEWMAN [BBN]

Pluribus	AFGL-TIP	2/66	T
Pluribus	AFSC-HQ-TIP	1/67	T
Pluribus	AFSC-SD-TIP	1/65	T
Pluribus	BBN-TESTIP	2/30	T
Pluribus	DARCOM-PTIP	2/50	T
Pluribus	RADC-TIP	2/18	T
Pluribus	SDAC-CCP	0/39	T
Pluribus	USGS1-TIP	2/68	T
Pluribus	USGS2-TIP	2/69	T
Pluribus	USGS3-TIP	2/70	T
Pluribus (Gateway)	BBN-PTIP	2/5	U
Pluribus (PLI)	BBN-UNIX	0/63	S
Pluribus (PLI)	COINS-GATEWAY	1/57	S
Pluribus (PLI)	COINS-TAS	0/36	U
Pluribus (PLI)	FNOC-SECURE	3/33	U VDH
Pluribus (PLI)	MOFFETT-SUBNET	1/45	U
Pluribus (PLI)	NOSC-SECURE2	0/35	U
Pluribus (PLI)	NOSC-SECURE3	3/35	U
Pluribus (PLI)	NOSC-SPEL	1/3	S
Pluribus (PLI)	NPS	0/33	S
Pluribus (VDA)	WHARTON-10	1/19	S VDH
Pluribus (VDA)	WPAFB-AFWAL	1/47	S VDH
Pluribus-TIP	STLA-PTIP	2/61	T

BURROUGHS

B-6700	I4-TENEX	0/15	S
B-6800 (MCP 31.280)	NCSC	1/53	S VDH
ILLIAC-IV (ACL)	I4-TENEX	0/15	S

CONTROL DATA CORPORATION [CDC]

CDC-2550 (CCP)	AFWL-TIP	2/48	T
CDC-5600 (MPX-RT)	CENTACS-MMP	0/60	U
CDC-6000/7000 (SCOPE, INTERCOM)	LONDON-VDH	1/42	S VDH
CDC-6400 (BKY)	LBL	0/34	S
CDC-6500 (NOS)	NSWC-WO	2/8	S VDH
CDC-6500 (NOS/BE)	FNOC	1/33	S VDH
CDC-6500 (NOS/BE)	FNOC-SECURE	3/33	S VDH
CDC-6600	DTNSRDC	1/8	S VDH
CDC-6600 (BKY)	LBL	0/34	S
CDC-6600 (KRONOS, NOS)	NADC	3/8	S VDH
CDC-6600 (NOS)	NYU	0/58	S
CDC-6600 (NOS/BE)	AFGL	1/66	S
CDC-6600 (NOS/BE)	AFSC-AD	0/53	S
CDC-6600 (NOS/BE)	AFWL-TIP	2/48	T
CDC-6600 (SCOPE)	WPAFB	0/47	S
CDC-6600 (SCOPE, INTERCOM)	BNL	1/58	S VDH
CDC-6700 (SCOPE 3.4)	NSWC-DL	4/8	S VDH
CDC-7600 (BKY)	LBL	0/34	S
CDC-7600 (SCOPE)	BNL	1/58	S VDH
CYBER 175 (KRONOS, NOS)	NADC	3/8	S VDH
CYBER-176 (NOS/BE)	AFWL	0/48	S
CYBER-203	AFWL	0/48	S

COMPUTERS BY MFR

MANUFACTURER COMPUTER (OP-SYS)	HOST NAME	ADDR . (Dec)	STATUS
CULLER HARRISON			
AP-90 (SIGNAL)	CHI	1/7	S VDH
FPS AP-120B	BBN-SPEECH-11	2/49	S U
FPS AP-120B	ISI-SPEECH11	0/22	U
FPS-AP120B	UTAH-11	0/4	U
MP-32	CHI	1/7	S VDH
MP-32A	CHI	1/7	S VDH
DATA GENERAL			
NOVA-800	PARC-GATEWAY	1/32	U
DEC 10			
DEC-10 (ITS)	MIT-AI	2/6	S
DEC-10 (ITS)	MIT-ML	3/6	S
DEC-10 (P2SYS)	SU-AI	0/11	S
DEC-10 (TENEX)	BBNB	0/49	S
DEC-10 (TENEX)	BBNC	3/49	S
DEC-10 (TENEX)	BBNE	0/5	S
DEC-10 (TENEX)	DARCOM-KA	0/51	S
DEC-10 (TENEX)	I4-TENEX	0/15	S
DEC-10 (TENEX)	MOFFETT-ARC	0/45	S
DEC-10 (TENEX)	MOFFETT-SUBNET	1/45	U
DEC-10 (TENEX)	NOSC-SECURE2	0/35	U
DEC-10 (TENEX)	OFFICE-1	0/43	S
DEC-10 (TENEX)	OFFICE-2	1/43	S
DEC-10 (TENEX)	OFFICE-3	2/43	S
DEC-10 (TENEX)	USC-ECL	3/23	S
DEC-10 (TENEX)	USC-ISI	1/22	S
DEC-10 (TENEX, DATALANGUAGE)	CCA-TENEX	0/31	S
DEC-10 (TOPS-10)	HARV-10	0/9	S
DEC-10 (TOPS-10)	WHARTON-10	1/19	S VDH
DEC-1040 (ITS)	MIT-DMS	1/6	S
DEC-1050T (TOPS-10)	CMU-10B	0/14	S
DEC-1050T (TOPS-10)	CMU-10D	2/14	S
DEC-1050T (TOPS-10)	NBS-10	0/19	S VDH
DEC-1070 (TOPS-10)	LLL-MFE	1/21	S
DEC-1077 (TENEX)	SUMEX-AIM	0/56	S
DEC-1077 (TOPS-10)	WPAFB-AFWAL	1/47	S VDH
DEC-1080 (ITS)	MIT-MC	3/44	S
DEC-1080 (WAITS)	SU-AI	0/11	S
DEC-1080T (TOPS-10)	CMU-10A	1/14	S
DEC-1090T (TOPS-20AN)	BBND	1/49	S
DEC-1090T (TOPS-20AN)	SRI-KL	1/2	S
DEC-1090T (TOPS-20AN)	USC-ISIB	3/52	S
DEC-1090T (TOPS-20AN)	USC-ISIC	2/22	S
DEC-1090T (TOPS-20AN)	USC-ISIE	1/52	S
DEC-1090T (TOPS-20AN)	USC-ISIF	2/52	S
DEC-1091 (TOPS-20AN)	SANDIA	3/48	U
PDP-10 (TOPS10)	NRL-TOPS10	8/8	S VDH
DEC 11			
LSI-11	SU-ISL	1/56	S
LSI-11 (MOS)	EDN-UNIX	3/20	S
LSI-11 (MOS)	LONDON-GATEWAY	3/42	U
LSI-11/02 (MOS)	BRAGG-GATEWAY	0/38	U
LSI-11/02 (MOS)	SRI-C3PO	1/51	U
LSI-11/02 (MOS)	SRI-R2D2	3/51	U

MANUFACTURER
COMPUTER (OP-SYS)

HOST NAME **ADDR.** **STATUS**
(Dec)

DEC 11

LSI-110	EDN-UNIX	3/20	S
LSI-111	EDN-UNIX	3/20	S
PDP-11	CMU-10A	1/14	S
PDP-11	CMU-10B	0/14	S
PDP-11	CMU-10D	2/14	S
PDP-11	CMU-20C	3/14	S
PDP-11 (ELF)	NWC	3/3	S VDH
PDP-11/10	SRI-VIS11	2/2	S U
PDP-11/20	MIT-AI	2/6	S U
PDP-11/34	BBN-SAC	1/63	S U
PDP-11/34	BRAGG-GATEWAY	0/38	S U
PDP-11/34 (ELF)	AMES-11	3/16	S U
PDP-11/34 (ELF)	BNL	1/58	S VDH
PDP-11/34 (ELF)	SRI-C3PO	1/51	S U
PDP-11/34 (MOS)	CENTACS-MMP	0/60	S U
PDP-11/34 (MOS)	CENTACS-TF	3/60	S U
PDP-11/34 (RSX11M)	FNOC-SECURE	3/33	S VDH
PDP-11/34 (RT-11 3B)	COLLIINS-PR	0/46	S U
PDP-11/34 (UNIX)	COINS-GATEWAY	1/57	S U
PDP-11/34 (UNIX)	LONDON-GATEWAY	3/42	S U
PDP-11/34 (UNIX)	TYCHO	0/57	S U
PDP-11/35 (MOS)	LONDON-GATEWAY	3/42	S U
PDP-11/35 (UNIX)	GUNTER-UNIX	0/13	S U
PDP-11/35 (UNIX)	PENT-UNIX	3/26	S U
PDP-11/40	EDN-UNIX	3/20	S U
PDP-11/40 (ANTS)	BRL	0/29	S U
PDP-11/40 (ANTS)	YPG	0/75	S U
PDP-11/40 (ELF)	ARPA-PENGUIN	3/28	S U
PDP-11/40 (ELF)	BBN-GATEWAY	3/40	S U
PDP-11/40 (ELF)	DTNSRDC	1/8	S VDH
PDP-11/40 (ELF)	ISI-XGP11	0/52	S U
PDP-11/40 (ELF)	NADC	3/8	S VDH
PDP-11/40 (ELF)	NDRE-GATEWAY	3/41	S VDH
PDP-11/40 (ELF)	NUSC	3/58	S VDH
PDP-11/40 (ELF)	NYU	0/58	S U
PDP-11/40 (ELF)	SRI-R2D2	3/51	S U
PDP-11/40 (EPOS)	SRI-NSC11	3/2	S U
PDP-11/40 (RSX-11M)	NSWC-DL	4/8	S VDH
PDP-11/40 (RSX11)	NRL-ARCTAN	6/8	S U
PDP-11/40 (RT11)	BBN-SPEECH-11	2/49	S U
PDP-11/40 (UNIX)	NCSC	1/53	S VDH
PDP-11/40 (UNIX)	NOSC-CC	0/3	S VDH
PDP-11/40 (UNIX)	NOSC-SDL	1/35	S VDH
PDP-11/40 (UNIX)	NRL	0/8	S U
PDP-11/40 (UNIX)	NTIA-ITS	0/25	S S
PDP-11/40 (UNIX)	RADC-XPER	1/18	S VDH
PDP-11/40 (UNIX)	SRI-TSC	0/2	S U
PDP-11/44 (RSX11M)	AFSC-DEV	2/53	S S
PDP-11/45	RADC-MULTICS	0/18	S S
PDP-11/45	SU-AI	0/11	S S
PDP-11/45 (ELF)	ETAC	0/59	S U
PDP-11/45 (EPOS, UNIX)	ISI-SPEECH11	0/22	S U
PDP-11/45 (RSX11M)	AFSC-AD	0/53	S U
PDP-11/45 (RSX11M)	MARTIN	3/53	S VDH
PDP-11/45 (RSX11M, UNIX)	UTAH-11	0/4	S U
PDP-11/45 (UNIX)	COINS-TAS	0/36	S U
PDP-11/45 (UNIX)	LL-11	3/10	S U
PDP-11/45 (UNIX)	LOGICON	2/3	S VDH
PDP-11/45 (UNIX)	NBS-UNIX	3/19	S S
PDP-11/45 (UNIX)	RADC-UNIX	5/18	S S
PDP-11/45 (UNIX)	RAND-UNIX	3/7	S S
PDP-11/45 (UNIX)	ROBINS-UNIX	3/64	S U

COMPUTERS BY MFR

MANUFACTURER COMPUTER (OP-SYS)	HOST NAME	ADDR. (Dec)	STATUS
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DEC 11

PDP-11/45 (UNIX)	SRI-UNIX	2/51	S
PDP-11/45 (UNIX)	UCLA-ATS	0/1	S
PDP-11/45 (UNIX)	UCLA-SECURITY	2/1	S
PDP-11/45 (UNIX)	USAFA-GATEWAY	1/25	S VDH
PDP-11/45 (UNIX, others)	NRL-CSD	7/8	S
PDP-11/50 (RSX-11M, SAMNET)	AFWL	0/48	S
PDP-11/50 (RSX11M)	AFGL	1/66	S
PDP-11/50 (RSX11M)	WPAFB	0/47	S
PDP-11/50 (UNIX)	LL-ASG	1/44	S VDH
PDP-11/60 (RSX11M)	FNOC	1/33	U VDH
PDP-11/70	BBN-NU	0/72	S
PDP-11/70	UTEXAS-11	0/62	S
PDP-11/70 (KSOS)	SRI-R2D2	3/51	U
PDP-11/70 (UNIX)	BBN-UNIX	0/63	S
PDP-11/70 (UNIX)	BERKELEY	2/34	S VDH
PDP-11/70 (UNIX)	CCTC	0/20	S
PDP-11/70 (UNIX)	CINCPACFLT-WM	1/36	U
PDP-11/70 (UNIX)	CTO-DDF	1/17	S VDH
PDP-11/70 (UNIX)	DTI	1/12	S
PDP-11/70 (UNIX)	EDN-UNIX	3/20	S
PDP-11/70 (UNIX)	LBL-UNIX	1/34	S
PDP-11/70 (UNIX)	LL-XN	2/10	S
PDP-11/70 (UNIX)	LLL-COMP	0/21	S
PDP-11/70 (UNIX)	MITRE	0/17	S
PDP-11/70 (UNIX)	NOSC-SECURE2	0/35	U
PDP-11/70 (UNIX)	NOSC-SECURE3	3/35	U
PDP-11/70 (UNIX)	NPRDC	4/3	S VDH
PDP-11/70 (UNIX)	NPS	0/33	U
PDP-11/70 (UNIX)	NUSC-NPT	2/9	S VDH
PDP-11/70 (UNIX)	SDAC-UNIX	1/39	S
PDP-11/70 (UNIX)	SU-ISL	1/56	S
PDP-11/70 (UNIX)	UDEL	1/50	S VDH
PDP-11/70 (UNIX-PWB)	NOSC-SPEL	1/3	S
PDP-11s	I4-TENEX	0/15	S

DEC 20

DEC-2020T	AFSC-HQ	0/67	S
DEC-2040 (TOPS-20)	NOSC-SECURE2	0/35	S
DEC-2040T (TOPS-20)	BBNF	0/71	S
DEC-2040T (TOPS-20AN)	NOSC-SECURE3	3/35	U
DEC-2040T (TOPS-20AN)	RADC-TOPS20	3/18	S
DEC-2050T (TOPS-20AN)	BBNA	3/5	S
DEC-2050T (TOPS-20AN)	RUTGERS	2/58	S
DEC-2060	UTEXAS-20	1/62	S
DEC-2060 (TOPS-20)	CIT-20	0/54	S
DEC-2060 (TOPS-20AN)	SU-SCORE	3/11	S
DEC-2060T (TOPS-20)	CMU-20C	3/14	S
DEC-2060T (TOPS-20AN)	BBNG	1/5	S
DEC-2060T (TOPS-20AN)	DEC-2136	0/37	S
DEC-2060T (TOPS-20AN)	MIT-XX	0/44	S
DEC-2060T (TOPS-20AN)	RAND-AI	0/7	S
DEC-2060T (TOPS-20AN)	USC-ISID	0/27	S
DEC-2060T (TOPS-20AN)	UTAH-20	3/4	S
DEC-2060T (TOPS20-AN)	DEC-MARLBORO	1/37	S

DEC 9

PDP-9	LONDON	0/42	S
PDP-9	LONDON-VDH	1/42	S VDH

MANUFACTURER
COMPUTER (OP-SYS)

HOST NAME	ADDR.	STATUS
	(Dec)	

DEC VAX

VAX (UNIX)	RAND-UNIX	3/7	S
VAX 11/780	NUSC	3/58	S
VAX 11/780 (VMS)	AMES-11	3/16	U
VAX-11/780 (UNIX)	CCA-UNIX	2/31	S
VAX-11/780 (UNIX)	CIT-VAX	1/54	U
VAX-11/780 (UNIX)	SU-AI	0/11	S
VAX-11/780 (UNIX)	SU-ISL	1/56	S
VAX-11/780 (UNIX)	SU-SCORE	3/11	S
VAX-11/780 (VMS)	NYU	0/58	S

HEWLETT PACKARD

HP-3000 (DMS)	ARPA-DMS	0/28	S
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HONEYWELL

H-68/80 (Multics)	MIT-DEVMULTICS	4/31	S
H68/80 (MULTICS)	HI-MULTICS	0/24	S
HONEYWELL-6000 (GCOS)	CCTC	0/20	S
HONEYWELL-6180 (Multics)	MIT-MULTICS	0/6	S
HONEYWELL-6180 (MULTICS)	RADC-MULTICS	0/18	S

The following H-316 TIPS are on the ARPANET:

ACCAT-TIP	2/35	AMES-TIP	2/16	ARPA-TIP	2/28
BBN-NCC	0/40	BRAGG-TIP	2/38	CINCPAC-TIP	2/36
COLLINS-TIP	2/46	CORADCOM-TIP	2/60	DCEC-TIP	2/20
LONDON-TIP	2/42	MIT-TIP	2/44	MITRE-TIP	2/17
NBS-TIP	2/19	NCC-TIP	2/40	NORSAR-TIP	2/41
NPS-TIP	2/33	PENTAGON-TIP	2/26	RAND-TIP	2/7
SU-TIP	2/11	USC-TIP	2/23	UTAH-TIP	2/4
WPAFB-TIP	2/47	WRALC-TIP	2/64	WSMR-TIP	2/74

IBM 3000

IBM-3033 (VM/CMS,OS/MVT)	ANL	0/55	S
IBM-3033 (WYLBUR,OS/MVT)	ANL	0/55	S
IBM-370/3033 (OS/MVS,TSO)	UCLA-CCN	1/1	S

IBM 360

IBM 360/40	NORSAR-40A	0/41	U
IBM-360/195s (MVT, HASP)	LONDON	0/42	S
IBM-360/40 (DOS/360)	SDAC-NEP	2/39	U
IBM-360/44 (PS/44)	SDAC-44	3/39	S
IBM-360/67 (TSS/360)	AMES-67	0/16	S
IBM-360/75 (TSO)	ANL	0/55	S

IBM 370

IBM-370/195 (OS/MVT, ASP)	ANL	0/55	S
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SPS

SPS-41	SU-AI	0/11	S
SPS-41 (EPOS)	BBN-SPEECH-11	2/49	U

COMPUTERS BY MFR

MANUFACTURER COMPUTER (OP-SYS)	HOST NAME	ADDR. (Dec)	STATUS
UNIVAC			
UNIVAC-1100/82 UNIVAC-1110 (EXEC-8)	NOSC-CC NWC	0/3 3/3	S VDH S VDH
VARIAN			
VARIAN-73	ANL	0/55	S
XEROX			
MAXC (TENEX) MAXC (TENEX)	PARC-MAXC PARC-MAXC2	0/32 2/32	S S
OTHER			
AMDAHL 470V/7 (VM/370) BCR BCR CCP CHI-5 (DOS) Signal Processor CSPI MAP-300 ECLIPSE S200 (RIG) Foonly-2 (TENEX) ICL-4/72 MLC NORD-10 (SINTRAN-3) RSM (PLI) S-1 STARAN S-1000P TAC TI-ASC (GPOS)	LL BCR-108 BCR-113 SDAC-CCP SRI-NSC11 BBN-SPEECH-11 ROCHESTER SCI-ICS LONDON-VDH AFWL-TIP NDRE CINCPACFLT-WM LLL-S1 RADC-MULTICS BBN-TAC NRL	0/10 2/62 3/62 0/39 3/2 2/49 4/18 3/32 1/42 2/48 1/41 1/36 2/21 0/18 2/72 0/8	S U U U U U S VDH S S VDH T U VDH S U S T S

HOSTS BY LOCATION

ALABAMA

GUNTER-TIP
GUNTER-UNIX

ARIZONA

YPG

CALIFORNIA (Northern)

FNOC
FNOC-SECURE
NPS
NPS-TIP
DARCOM-KA
SRI-C3PO
SRI-KL
SRI-NSC11
SRI-R2D2
SRI-TSC
SRI-UNIX
SRI-VIS11
USGS3-TIP
AMES-11
AMES-67
AMES-TIP
MOFFETT-ARC
MOFFETT-SUBNET
I4-TENEX
PARC-GATEWAY
PARC-MAXC
PARC-MAXC2
SCI-ICS
SU-AI
SU-ISL
SU-SCORE
SU-TIP
SUMEX-AIM
LLL-COMP
LLL-MFE
LLL-S1
BERKELEY
LBL
LBL-UNIX
OFFICE-1
OFFICE-2
OFFICE-3

CALIFORNIA (Southern)

USC-ECL
USC-TIP
UCLA-ATS
UCLA-CCN
UCLA-SECURITY
AFSC-SD-TIP
ISI-SPEECH11
ISI-XGP11

CALIFORNIA (Southern)

USC-ISI
USC-ISIB
USC-ISIC
USC-ISID
USC-ISIE
USC-ISIF
RAND-AI
RAND-TIP
RAND-UNIX
CIT-VAX
CIT-20
LOGICON
ACCAT-TIP
NOSC-CC
NOSC-SDL
NOSC-SECURE2
NOSC-SECURE3
NOSC-SPEL
NPRDC
CHI
NWC

COLORADO

USGS2-TIP
DOCB-TIP
NTIA-ITS
USAFA-GATEWAY

CONNECTICUT

NUSC

DELAWARE

UDEL

ENGLAND

LONDON
LONDON-GATEWAY
LONDON-TIP
LONDON-VDH

FLORIDA

NCSC
AFSC-AD
AFSC-DEV
MARTIN

GEORGIA

ROBINS-UNIX
WRALC-TIP

HAWAII

CINCPAC-TIP
CINCPAC-WM
COINS-TAS

ILLINOIS

ANL
DTI
ETAC

MARYLAND

DTNSRDC
AFSC-HQ
AFSC-HQ-TIP
COINS-GATEWAY
TYCHO
NSWC-WO
BRL

MASSACHUSETTS

AFGL
AFGL-TIP
DEC-2136
DEC-MARLBORO
BBN-NU
HARV-10
NCC-TIP
CCA-TENEX
CCA-UNIX
MIT-AI
MIT-DEVMULTICS
MIT-DMS
MIT-MC
MIT-ML
MIT-MULTICS
MIT-TIP
MIT-XX
LL-ASG
LL
LL-11
LL-XN
BBN-GATEWAY
BBN-NCC
BBN-PTIP
BBN-SAC
BBN-SPEECH-11
BBN-TAC
BBN-TESTIP
BBN-UNIX
BBNA
BBNB
BBNC
BBND
BBNE
BBNF
BBNG

MINNESOTA

HI-MULTICS

MISSOURI

STLA-PTIP

HOSTS BY LOCATION

NEBRASKA

GWC-TIP

NEW JERSEY

CENTACS-MMP
CENTACS-TF
CORADCOM-TIP
RUTGERS

NEW MEXICO

AFWL
AFWL-TIP
SANDIA
WSMR-TIP

NEW YORK

NYU
BNL
RADC-MULTICS
RADC-TIP
RADC-TOPS20
RADC-UNIX
RADC-XPER
ROCHESTER

NORTH CAROLINA

BRAGG-GATEWAY
BRAGG-TIP

NORWAY

NDRE
NDRE-GATEWAY
NORSAR-40A
NORSAR-TIP

OHIO

WPAFB
WPAFB-AFWAL
WPAFB-TIP

PENNSYLVANIA

CMU-10A
CMU-10B
CMU-10D
CMU-20C
NADC
WHARTON-10

RHODE ISLAND

NUSC-NPT

TEXAS

COLLINS-PR
COLLINS-TIP
BCR-108
BCR-113
UTEXAS-11
UTEXAS-20

UTAH

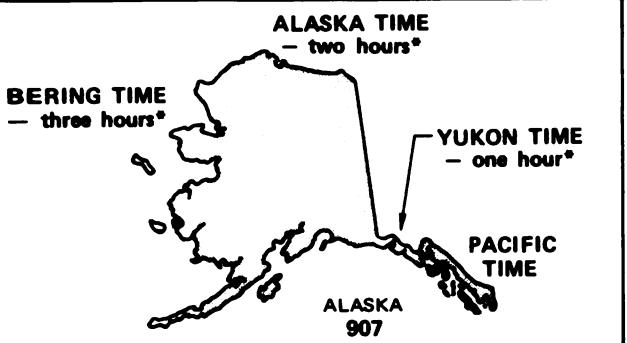
UTAH-11
UTAH-20
UTAH-TIP

VIRGINIA

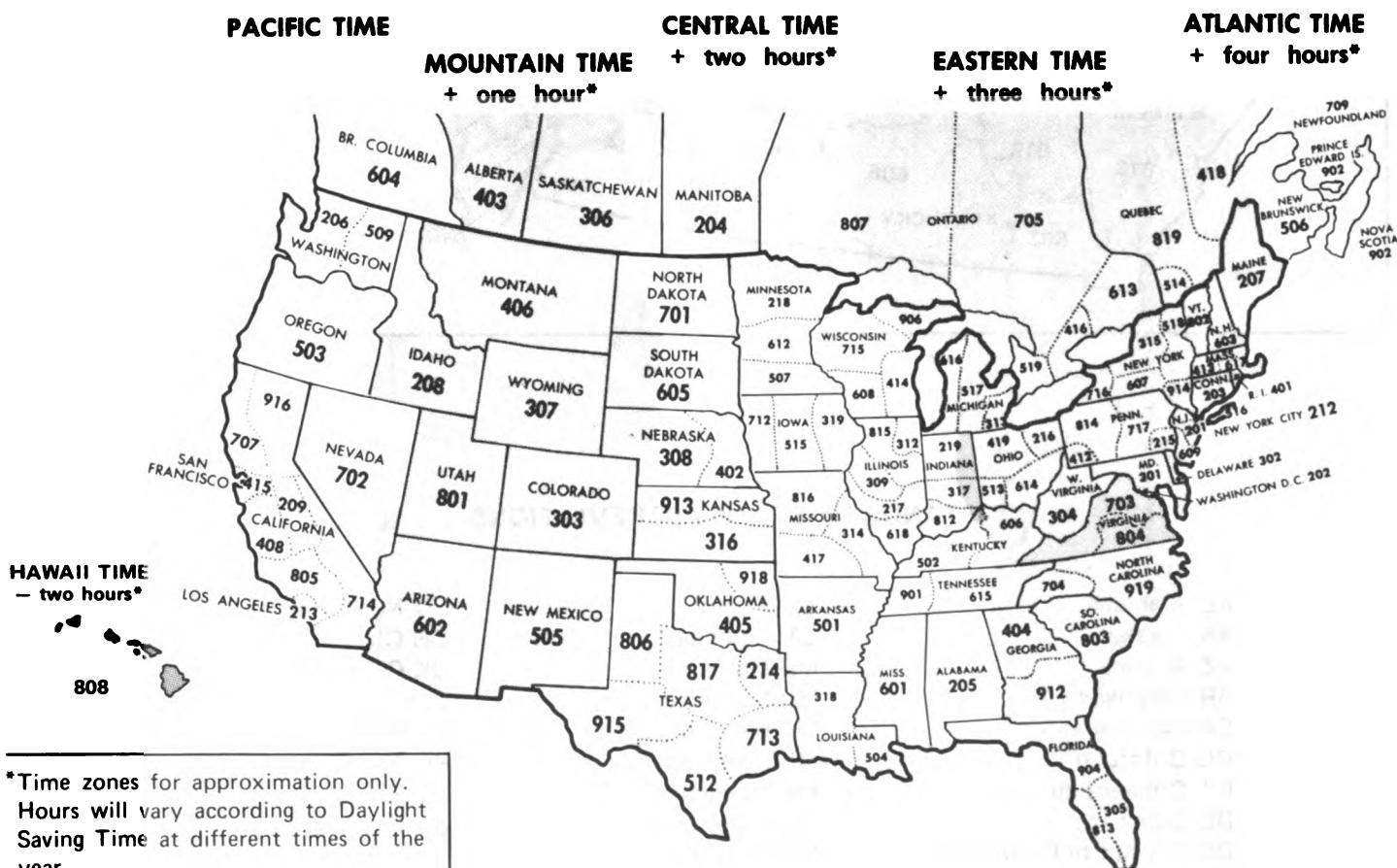
CCTC
DCEC-TIP
EDN-UNIX
USGS1-TIP
MITRE
MITRE-TIP
ARPA-DMS
ARPA-PENGUIN
ARPA-TIP
CTO-DDF
SDAC-44
SDAC-CCP
SDAC-NEP
SDAC-UNIX
DARCOM-PTIP
NSWC-DL

WASHINGTON, D.C.

NBS-10
NBS-TIP
NBS-UNIX
PENT-UNIX
PENTAGON-TIP
NRL
NRL-ARCTAN
NRL-CSD
NRL-TOPS10



U.S. TIME ZONES AND AREA CODES



***Time zones** for approximation only.
Hours will vary according to Daylight
Saving Time at different times of the
year.

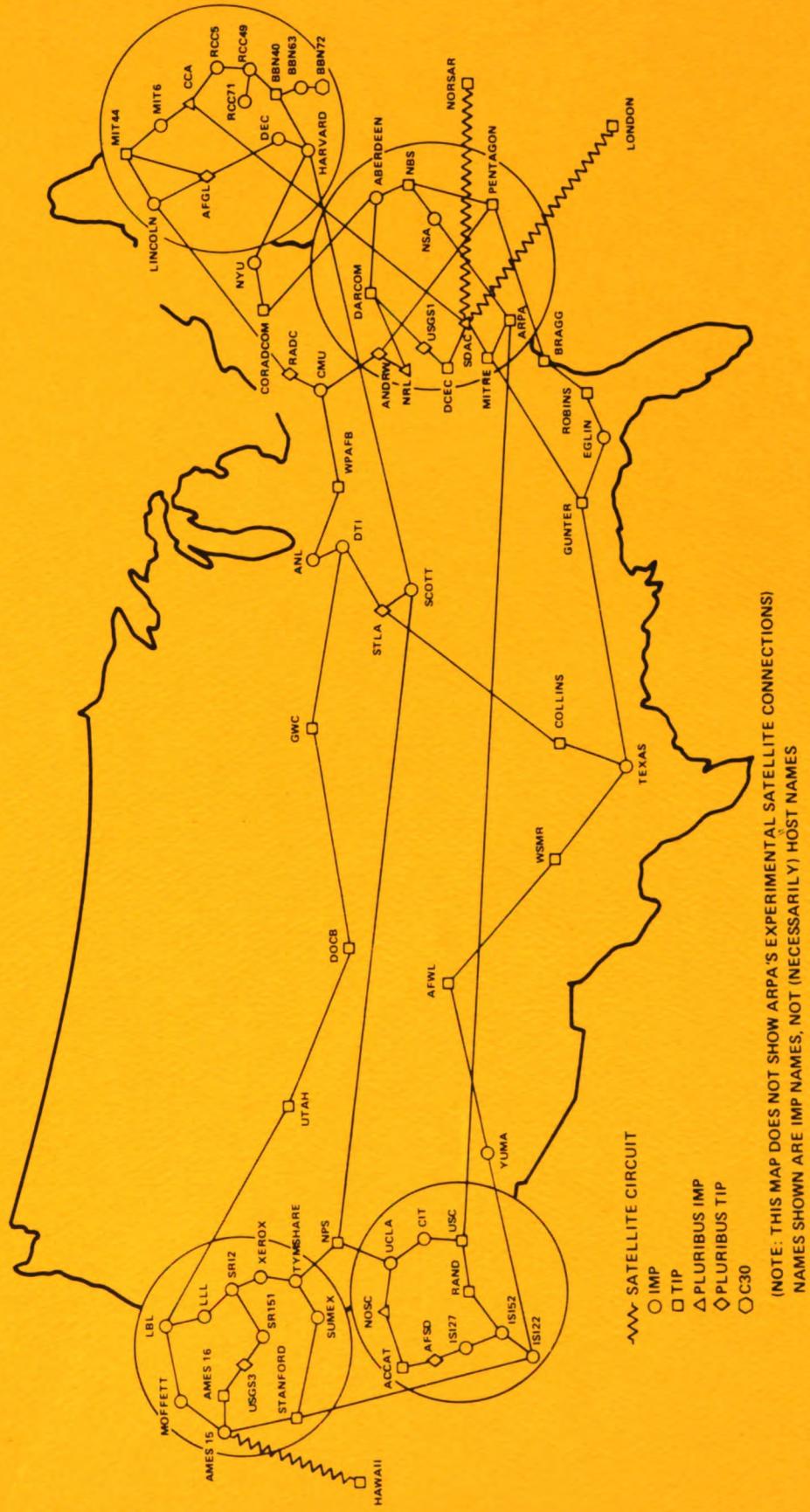
EASTERN U.S. AREA CODES



STANDARD STATE ABBREVIATIONS

AL Alabama	KY Kentucky	ND North Dakota
AK Alaska	LA Louisiana	OH Ohio
AZ Arizona	ME Maine	OK Oklahoma
AR Arkansas	MD Maryland	OR Oregon
CA California	MA Massachusetts	PA Pennsylvania
CO Colorado	MI Michigan	RI Rhode Island
CT Connecticut	MN Minnesota	SC South Carolina
DE Delaware	MS Mississippi	SD South Dakota
DC District of Columbia	MO Missouri	TN Tennessee
FL Florida	MT Montana	TX Texas
GA Georgia	NE Nebraska	UT Utah
HI Hawaii	NV Nevada	VT Vermont
ID Idaho	NH New Hampshire	VA Virginia
IL Illinois	NJ New Jersey	WA Washington
IN Indiana	NM New Mexico	WV West Virginia
IA Iowa	NY New York	WI Wisconsin
KS Kansas	NC North Carolina	WY Wyoming

ARPANET GEOGRAPHIC MAP, DECEMBER 1980



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