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THE HOST TABLE:

The host table consists of commentary and two types of text lines. The commentary lines begin with a semicolon and are ignored by the compiler. They are intended to provide information for a human reader or editor of the host table. The commentary lines may be in mixed case, however the text lines are by tradition entirely in upper case. There are two kinds of text lines: host and network.

The format of a network text line is:

For example, the ARPANET's entry would look something like:

Host text lines begin with the word "HOST" followed by a space or tab. These specify a host name, a host address list, whether this host is a "user" or a "server", the name of the host's operating system, the name of the host's machine type, and a nick name list. The operating system, machine type, and/or nick name list may be omitted, in which case they default to unknown or null.

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The host address list is either a single host address, or a list of host addresses in square brackets and delimited by commas. A host address consists of a network name, a space, and the host's address on that network. If the network name is not specified, it defaults to ARPA (i.e., "ARPA 0/11" and "0/11" are equivalent). Different networks parse host addresses in different ways:

CHAOS net addresses are a single octal number, e.g. "CHAOS 2026", and specify the host's address on the CHAOS net.

The definition of user vs. server is generally taken to mean "according to the NIC" for ARPANET hosts. A server is considered to be a host for which making a connection to a remote service is a meaningful operation. For some hosts with limited servers, the definition often is changed from the official one, depending upon the individual circumstances. For example, "users" who have an FTP server and occasionally a TELNET server may be called "servers". On the other hand a "server" which does not accept MAIL and rejects MAIL in a pathological way (e.g. by hanging) might be labelled a "user".

The name of the host's machine type is a string as well. For the convenience of several subsystems, all DEC "PDP-n" machines are entered without the dash, and all PDP-10 like machines (e.g., KL-20, MAXC, etc.) are considered to be PDP-10's, which by the way gets entered as "PDP10" since that is a single 36-bit word in 7-bit ASCII. Like the operating system name, several subsystems use this information as well. For example, a PDP-10 FTP user process will try to negotiate 36-bit image

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word 0      Number of entries in table.
word 1      Number of words per entry, currently 2.
entry word 0 Network address of this entry, including network number.
              For ARPANET addresses this is in the format:
                xxx000,,000000  Network number
                000xxx,,xxx000  IMP number
                000000,,000xxx  Host number
              Each number is right justified.
              For CHAOS net addresses it is an octal number.
              For Dialnet addresses it is the address in the file of
              the TelCo number in ASCIZ.
entry word 1 Left half: Address in file of SITE table entry.
              Right half: Address in file of next ADDRESS table entry
              for this site (zero means end of list).
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word 0      Number of entries in table.
word 1      Number of words per entry, currently 3.
  entry word 0  Left half: Address in file of official name in ASCIIZ.
                Right half: Address in file of first ADDRESS table entry
                for this site.
  entry word 1  Left half: Address in file of  operating system name  in
                ASCIIZ (zero means unknown).
                Right half: Address in file of  machine  type  in  ASCIIZ
                (zero means unknown).
  entry word 2  Left half: Flags.  The 400000 bit means a server site.
                Right half: reserved

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word 0	Number of entries in table.
word 1	Number of words per entry, currently 1.
entry word 0	Left half: Address in file of SITE table entry for this host. Right half: Address in file of host name in ASCIIZ.

A host table capable of supporting the full host addressing of the ARPANET and additional networks has been presented, along with a binary file format for efficient manipulation of this host table data.

We are documenting this format in order to present it to the outside world as a suggested replacement for the current host table. The advantage of our host table is that it has already been implemented and is in use at MIT and Stanford. We have established some conventions

Anybody who is interested in importing our host table to their own system should contact David Moon (MOON@MIT-MC) or me (MRC@SU-AI) for more information.

Many people have been involved in the design and implementation of the current host table. They include, in no particular order, Richard Stallman, David Moon, Ken Harrenstien, and Mark Crispin. I won't bother to list the contributions individually, since it's hard to determine who did what and that sort of stuff is boring to read anyway.

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The host table as of this writing is listed in this appendix.

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; Host table...
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HOST ACCAT-TIP,          2/35,USER,TIP,H316,[NELC-TIP]
HOST AFWL,               0/48,SERVER,SCOPE,CDC-6600,[AWFUL]
HOST AFWL-TIP,          2/48,USER,TIP,H316,[AWFUL-TIP]
HOST AI-CHAOS-11,       CHAOS 426,USER,,PDP11
HOST ALMSA-TIP,         2/61,USER,TIP,H316
HOST AMES-11,           3/16,USER,ELF,PDP11
HOST AMES-67,           0/16,SERVER,TSS/360,360/67,[AMES]
HOST AMES-TIP,          2/16,USER,TIP,H316
HOST ANL,               0/55,SERVER,OS-MVT,370/195,[ARGONNE]
HOST ARPA-DMS,          0/28,SERVER,DMS,PDP15

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HOST UCLA-CCN,          1/1,SERVER,OS-MVT,360/91,[CCN]
HOST UCLA-SECURITY,     2/1,SERVER,UNIX,PDP11,[INSECURITY,UCLA,UCLA-S]
HOST USC-ECL,           3/23,SERVER,TENEX,PDP10,[ECL]
HOST USC-ISI,           1/22,SERVER,TENEX,PDP10,[ISIA,ISI,USC-ISIA]
HOST USC-ISIB,          3/52,SERVER,TENEX,PDP10,[ISIB,ISI-DEVTENEX]
HOST USC-ISIC,          2/22,SERVER,TENEX,PDP10,[ISIC]
HOST USC-ISIE,          1/52,SERVER,TOPS-20,PDP10,[ISIE,ISI-TWENEX]
HOST USC-TIP,           2/23,USER,TIP,H316
HOST UTAH-11,           0/4,USER,RSX-11M,PDP11
HOST UTAH-TIP,          2/4,USER,TIP,H316
HOST UTEXAS,            0/62,SERVER,UNIX,PDP11,[UTEX,TEXAS]
HOST WHARTON,           1/46,SERVER,TOPS-10,PDP10,[WARTON]
HOST WPAFB,             0/47,SERVER,SCOPE,CDC-6600
HOST WPAFB-AFAL,        1/47,SERVER,TOPS-10,PDP10,[AVSAIL]
HOST WPAFB-TIP,         2/47,USER,TIP,H316

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