                            INTERNET NUMBERS

Status of this Memo

   This memo is an official status report on the network numbers used in
   the Internet community. Distribution of this memo is unlimited.

Introduction

   This Network Working Group Request for Comments documents the
   currently assigned network numbers and gateway autonomous systems.
   This RFC will be updated periodically, and in any case current
   information can be obtained from Hostmaster.

      Hostmaster
      DDN Network Information Center
      SRI International
      333 Ravenswood Avenue
      Menlo Park, California 94025
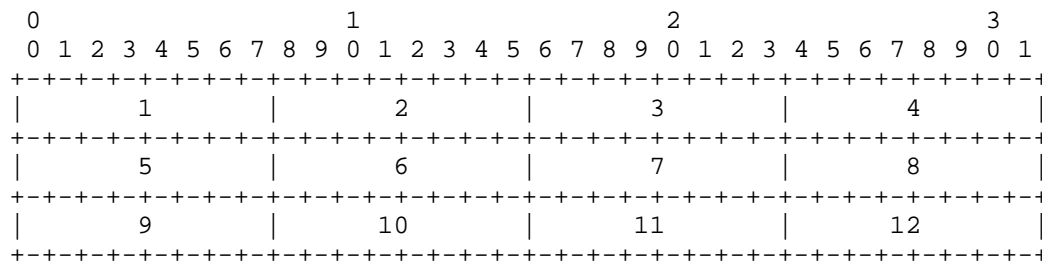
      Phone: 1-800-235-3155

      ARPA mail: HOSTMASTER@SRI-NIC.ARPA

   Most of the protocols used in the Internet are documented in the RFC
   series of notes. Some of the items listed are undocumented. Further
   information on protocols can be found in the memo "Official
   ARPA-Internet Protocols" [24]. The more prominent and more generally
   used are documented in the "DDN Protocol Handbook" [11] prepared by
   the NIC. Other collections of older or obsolete protocols are
   contained in the "Internet Protocol Transition Workbook" [12], or in
   the "ARPANET Protocol Transition Handbook" [13]. For further
   information on ordering the complete 1985 DDN Protocol Handbook,
   contact the Hostmaster.

   In the entries below, the name and mailbox of the responsible
   individual is indicated. The bracketed entry, e.g., [nn,iii], at the
   right hand margin of the page indicates a reference for the listed
   protocol, where the number ("nn") cites the document and the letters
   ("iii") cites the person. Whenever possible, the letters are a NIC
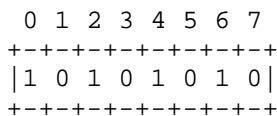   Ident as used in the WhoIs (NICNAME) service.

The convention in the documentation of Internet Protocols is to
express numbers in decimal and to picture data in "big-endian" order
[31]. That is, fields are described left to right, with the most
significant octet on the left and the least significant octet on the
right.

The order of transmission of the header and data described in this
document is resolved to the octet level. Whenever a diagram shows a
group of octets, the order of transmission of those octets is the
normal order in which they are read in English. For example, in the
following diagram the octets are transmitted in the order they are
numbered.

```
 0                   1                   2                   3
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|       1       |       2       |       3       |       4       |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|       5       |       6       |       7       |       8       |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|       9       |      10       |      11       |      12       |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

                    Transmission Order of Bytes

Whenever an octet represents a numeric quantity the left most bit in
the diagram is the high order or most significant bit. That is, the
bit labeled 0 is the most significant bit. For example, the
following diagram represents the value 170 (decimal).

```
                     0 1 2 3 4 5 6 7
                    +-+-+-+-+-+-+-+-+
                    |1 0 1 0 1 0 1 0|
                    +-+-+-+-+-+-+-+-+
```
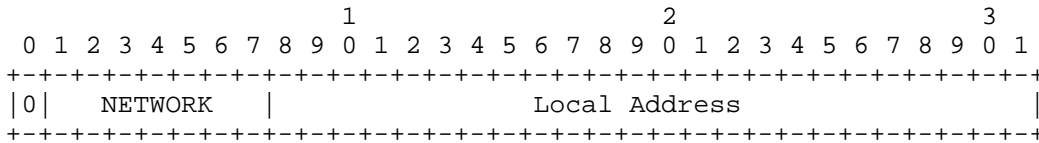
                       Significance of Bits

Similarly, whenever a multi-octet field represents a numeric quantity
the left most bit of the whole field is the most significant bit.
When a multi-octet quantity is transmitted the most significant octet
is transmitted first.

                         NETWORK NUMBERS
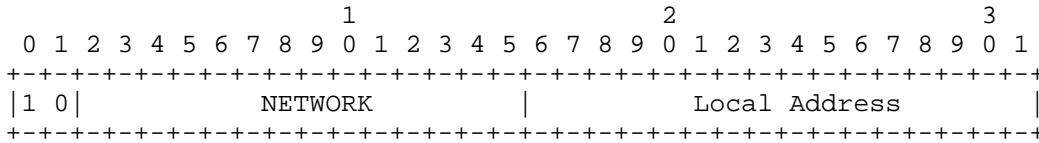
   The network numbers listed here are used as internet addresses by the
   Internet Protocol (IP) [11,21]. The IP uses a 32-bit address field
   and divides that address into a network part and a "rest" or local
   address part. The division takes 4 forms or classes.

      The first type of address, or class A, has a 7-bit network number
      and a 24-bit local address. The highest-order bit is set to 0.
      This allows 128 class A networks.

```
                         1                   2                   3
     0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
    |0|   NETWORK   |                Local Address                  |
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```
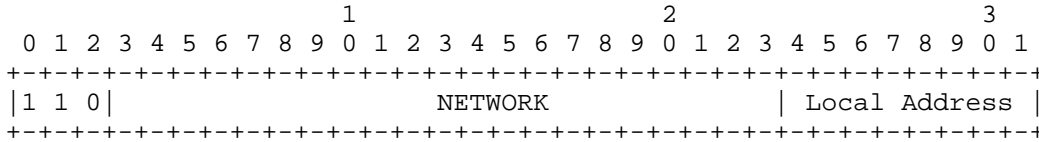
                         Class A Address

   The second type of address, class B, has a 14-bit network number
   and a 16-bit local address. The two highest-order bits are set to
   1-0. This allows 16,384 class B networks.

```
                         1                   2                   3
     0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
    |1 0|           NETWORK         |          Local Address        |
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

                         Class B Address

   The third type of address, class C, has a 21-bit network number
   and a 8-bit local address. The three highest-order bits are set
   to 1-1-0. This allows 2,097,152 class C networks.

```
                         1                   2                   3
     0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
    |1 1 0|                NETWORK               | Local Address |
    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

                         Class C Address

The fourth type of address, class D, is used as a multicast
address [10]. The four highest-order bits are set to 1-1-1-0.

```
                          1                   2                   3
  0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
 +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
 |1 1 1 0|               multicast address                       |
 +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

Class D Address

Note: No addresses are allowed with the four highest-order bits
set to 1-1-1-1. These addresses, called "class E", are reserved.

One commonly used notation for internet host addresses divides the
32-bit address into four 8-bit fields and specifies the value of each
field as a decimal number with the fields separated by periods. This
is called the "dotted decimal" notation. For example, the internet
address of VENERA.ISI.EDU in dotted decimal is 010.001.000.052, or
10.1.0.52.

The dotted decimal notation will be used in the listing of assigned
network numbers. The class A networks will have nnn.rrr.rrr.rrr, the
class B networks will have nnn.nnn.rrr.rrr, and the class C networks
will have nnn.nnn.nnn.rrr, where nnn represents part or all of a
network number and rrr represents part or all of a local address.

There are four catagories of users of Internet Addresses: Research,
Defense, Government (Non-Defense), and Commercial. To reflect the
allocation of network identifiers among the categories, a
one-character code is placed to the left of the network number: R for
Research, D for Defense, G for Government, and C for Commercial (see
Appendix A for further details on this division of the network
identification).

Network numbers are assigned for networks that are connected to the
research Internet and operational Internet, and for independent
networks that use the IP family protocols (these are usually
commercial). These independent networks are marked with an asterisk
preceding the number.

The administrators of independent networks must apply separately for
permission to interconnect their network with the Internet.
Independent networks should not be listed in the working tables of
the Internet hosts or gateways.

For various reasons, the assigned numbers of networks are sometimes
changed. To ease the transition the old number will be listed for a

transition period as well. These "old number" entries will be marked
with a "T" following the number and preceding the name, and the
network name will be suffixed "-TEMP".

Special Addresses:

   In certain contexts, it is useful to have fixed addresses with
   functional significance rather than as identifiers of specific
   hosts.

      The address zero is to be interpreted as meaning "this", as in
      "this network".

         For example, the address 0.0.0.37 could be interpreted as
         meaning host 37 on this network.

      The address of all ones are to be interpreted as meaning "all",
      as in "all hosts".

         For example, the address 128.9.255.255 could be interpreted
         as meaning all hosts on the network 128.9.

      The class A network number 127 is assigned the "loopback"
      function, that is, a datagram sent by a higher level protocol
      to a network 127 address should loop back inside the host. No
      datagram "sent" to a network 127 address should ever appear on
      any network anywhere.

Network Numbers

Class A Networks

```
  *  Internet Address   Name       Network             References
  -  ---------------    ----       -------             ----------
     000.rrr.rrr.rrr                Reserved                   [JBP]
     001.rrr.rrr.rrr-003.rrr.rrr.rrr Unassigned                [NIC]
  R  004.rrr.rrr.rrr    SATNET     Atlantic Satellite Network [SHB]
     005.rrr.rrr.rrr    Unassigned Unassigned                 [NIC]
  D  006.rrr.rrr.rrr T YPG-NET-TEMP Yuma Proving Grounds    [4,BWA]
  D  007.rrr.rrr.rrr T EDN-TEMP    DCEC EDN                   [EC5]
  R  008.rrr.rrr.rrr T BBN-NET-TEMP BBN Network              [JSG5]
     009.rrr.rrr.rrr    Unassigned Unassigned                 [NIC]
  R  010.rrr.rrr.rrr    ARPANET    ARPANET                  [4,SA2]
  D  011.rrr.rrr.rrr    DODIIS     DoD INTEL INFO SYS         [AY5]
  C  012.rrr.rrr.rrr    ATT        ATT, Bell Labs            [MH12]
  C  013.rrr.rrr.rrr    XEROX-NET  XEROX Internet         [30,JNL1]
  C  014.rrr.rrr.rrr    PDN        Public Data Network        [SA2]
  R*015.rrr.rrr.rrr     HP-INTERNET Hewlett-Packard-Internet  [BXR]
     016.rrr.rrr.rrr-017.rrr.rrr.rrr Unassigned               [NIC]
  R  018.rrr.rrr.rrr T MIT-TEMP    MIT Network          [7,23,DDC1]
     019.rrr.rrr.rrr-020.rrr.rrr.rrr Unassigned               [NIC]
  D  021.rrr.rrr.rrr    DDN-RVN    DDN-RVN                    [MLC]
  D  022.rrr.rrr.rrr    DISNET     DISNET                    [FLM2]
  D  023.rrr.rrr.rrr    DDN-TC-NET DDN-TestCell-Network      [DH17]
     024.rrr.rrr.rrr    Unassigned Unassigned                 [NIC]
  R  025.rrr.rrr.rrr    RSRE-EXP   RSRE                      [RNM1]
  D  026.rrr.rrr.rrr    MILNET     MILNET                    [FLM2]
  R  027.rrr.rrr.rrr T NOSC-LCCN-TEMPNOSC / LCCN              [RH6]
  R  028.rrr.rrr.rrr    WIDEBAND   Wide Band Satellite Net   [CJW2]
  D  029.rrr.rrr.rrr T MILX25-TEMP MILNET X.25 Temp          [MLC]
  D  030.rrr.rrr.rrr T ARPAX25-TEMP ARPA X.25 Temp           [MLC]
  G  031.rrr.rrr.rrr    UCDLA-NET  UCDLA-CATALOG-NET          [CXL]
  R  032.rrr.rrr.rrr    UCL-TAC    UCL TAC                     [PK]
     033.rrr.rrr.rrr-034.rrr.rrr.rrr Unassigned               [NIC]
  R  035.rrr.rrr.rrr    MERIT      MERIT COMPUTER NETWK       [HWB]
  R  036.rrr.rrr.rrr T SU-NET-TEMP Stanford University Network[PA5]
     037.rrr.rrr.rrr-038.rrr.rrr.rrr Unassigned               [NIC]
  R  039.rrr.rrr.rrr T SRINET-TEMP SRI Local Network        [GEOF]
     040.rrr.rrr.rrr    Unassigned Unassigned                 [NIC]
  R  041.rrr.rrr.rrr    BBN-TEST-A BBN-GATE-TEST-A            [RH6]
     042.rrr.rrr.rrr-043.rrr.rrr.rrr Unassigned               [NIC]
  R  044.rrr.rrr.rrr    AMPRNET    Amateur Radio Experiment Net[HM]
     045.rrr.rrr.rrr-126.rrr.rrr.rrr Unassigned               [NIC]
  R  127.rrr.rrr.rrr                Loopback                   [JBP]
```

Class B Networks

```
* Internet Address   Name          Network              References
- ----------------   ----          -------              ----------
  128.000.rrr.rrr                   Reserved                  [JBP]
R 128.001.rrr.rrr    BBN-TEST-B    BBN-GATE-TEST-B           [RH6]
R 128.002.rrr.rrr    CMU-NET       CMU-Ethernet              [HDW2]
R 128.003.rrr.rrr    LBL-CSAM      LBL-CSAM-RESEARCH         [JS38]
R 128.004.rrr.rrr    DCNET         LINKABIT DCNET        [20,DLM1]
R 128.005.rrr.rrr    FORDNET       FORD DCNET            [20,DLM1]
R 128.006.rrr.rrr    RUTGERS       RUTGERS                   [CLH3]
R 128.007.rrr.rrr    DFVLR         DFVLR DCNET Network        [GB7]
R 128.008.rrr.rrr    UMDNET        Univ of Maryland DCNET [20,DLM1]
R 128.009.rrr.rrr    ISI-NET       USC-ISI Local Network      [CMR]
R 128.010.rrr.rrr    PURDUE-CS-EN  Purdue Computer Science    [CAK]
R 128.011.rrr.rrr    BBN-CRONUS    BBN DOS Project        [19,WXM]
R 128.012.rrr.rrr    SU-NET        Stanford University Net    [LB3]
D 128.013.rrr.rrr    MATNET        Mobile Access Terminal Net [SHB]
R 128.014.rrr.rrr    BBN-SAT-TEST  BBN SATNET Test Net        [SHB]
R 128.015.rrr.rrr    S1NET         LLL-S1-NET                [EAK1]
R 128.016.rrr.rrr    UCLNET        University College London   [PK]
D 128.017.rrr.rrr    MATNET-ALT    Mobile Access Terminal Alt [SHB]
R 128.018.rrr.rrr    SRINET        SRI Local Network         [GEOF]
D 128.019.rrr.rrr    EDN           DCEC EDN                   [EC5]
D 128.020.rrr.rrr    BRLNET        BRLNET                 [4,MJM2]
R 128.021.rrr.rrr    SF-PR-1       SF-1 Packet Radio Network  [JEM]
R 128.022.rrr.rrr    SF-PR-2       SF-2 Packet Radio Network  [JEM]
R 128.023.rrr.rrr    BBN-PR        BBN Packet Radio Network  [JBW1]
R 128.024.rrr.rrr    ROCKWELL-PR   Rockwell Packet Radio Net  [EHP]
D 128.025.rrr.rrr    BRAGG-PR      Ft. Bragg Packet Radio Net [JEM]
D 128.026.rrr.rrr    SAC-PR        SAC Packet Radio Network   [BG5]
D 128.027.rrr.rrr    DEMO-PR-1     Demo-1 Packet Radio Network[LCS]
D 128.028.rrr.rrr    C3-PR-TEMP    Testbed Development PR NET [BG5]
R 128.029.rrr.rrr    MITRE         MITRE Cablenet         [29,TML]
R 128.030.rrr.rrr    MIT-NET       MIT Local Network         [DDC1]
R 128.031.rrr.rrr    MIT-RES       MIT Research Network      [DDC1]
R 128.032.rrr.rrr    UCB-ETHER     UC Berkeley Ethernet      [DAM1]
R 128.033.rrr.rrr    BBN-NET       BBN Network               [JSG5]
R 128.034.rrr.rrr    NOSC-LCCN     NOSC / LCCN                [RH6]
R 128.035.rrr.rrr    CISLTESTNET1  Honeywell           [14,15,JLM23]
R 128.036.rrr.rrr    YALE-NET      YALE NET               [30,JO5]
D 128.037.rrr.rrr    YPG-NET       Yuma Proving Grounds    [4,BWA]
D 128.038.rrr.rrr    NSWC-NET      NSWC Local Host Net       [RLH2]
R 128.039.rrr.rrr    NTANET        NDRE-TIU                  [PS27]
R 128.040.rrr.rrr    UCL-NET-A     UCL                       [RC77]
R 128.041.rrr.rrr    UCL-NET-B     UCL                       [RC77]
R 128.042.rrr.rrr    RICE-NET      Rice University        [30,PGM]
R 128.043.rrr.rrr    DRENET        Canada REF ARPANET      [4,JR17]
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D 128.044.rrr.rrr    WSMR-NET      White Sands Network      [CAS1]
C 128.045.rrr.rrr    DEC-WRL-NET   DEC WRL Network       [30,RKJ2]
R 128.046.rrr.rrr    PURDUE-NET    Purdue Campus Network     [CAK]
D 128.047.rrr.rrr    TACTNET       Tactical Packet Net     [3,KTP]
G 128.048.rrr.rrr    UCDLA-NET-B   UCDLA-Network-B         [4,CXL]
R 128.049.rrr.rrr    NOSC-ETHER    NOSC Ethernet          [30,RLB3]
G 128.050.rrr.rrr    COINS         COINS On-Line Intel Net  [RLS6]
G 128.051.rrr.rrr    COINSTNET     COINS TEST NETWORK       [RLS6]
R 128.052.rrr.rrr    MIT-AI-NET    MIT AI NET             [30,MDC]
R 128.053.rrr.rrr    SAC-PR-2      SAC PRNET Number 2        [BG5]
R 128.054.rrr.rrr    UCSD          UC San Diego Network   [30,GH29]
R*128.055.rrr.rrr    MFENET        LLNL MFE Network       [28,DRP]
D 128.056.rrr.rrr    USNA-NET      US Naval Academy Network  [TS9]
D 128.057.rrr.rrr    DEMO-PR-2     Demo-2 Packet Radio Net   [LCS]
C*128.058.rrr.rrr    SPAR          Schlumberger PA Net    [30,RXB]
R 128.059.rrr.rrr    CU-NET        Columbia University    [30,LH2]
D 128.060.rrr.rrr    NRL-LAN       NRL Lab Area Net          [WF3]
R*128.061.rrr.rrr    GATECH        Georgia Tech           [30,GXS]
R 128.062.rrr.rrr    MCC-NET       MCC Corporate Net      [30,CBD]
R 128.063.rrr.rrr    BRL-SUBNET    BRL-SUBNET-EXP           [RBN1]
R 128.064.rrr.rrr-128.079.rrr.rrr Net Dynamics Exp          [ZSU]
D 128.080.rrr.rrr    CECOMNET      CECOM EPR NET            [PFS2]
R 128.081.rrr.rrr    SYMBOLICS     SYMBOLICS              [30,CH2]
  128.082.rrr.rrr    Unassigned    Unassigned                [NIC]
R 128.083.rrr.rrr    UTAUSTIN      U. Texas Austin        [30,JBC2]
R 128.084.rrr.rrr    CORNELL-NET   Cornell Backbone Net    [30,BN9]
C*128.085.rrr.rrr    DRILL-NET     Teleco Drilltech Net      [DBJ]
R 128.086.rrr.rrr    MRC           UK.CO.GEC.RL.MRC         [RHC3]
R 128.087.rrr.rrr    HIRST         UK.CO.GEC.RL.HRC         [RHC3]
R*128.088.rrr.rrr    HP-NET        HEWLETT-PACKARD-NET       [AXG]
R 128.089.rrr.rrr    BBN-ENET-TEMP BBN ETHER NETWORK      [30,SGC]
C*128.090.rrr.rrr    PQS           PERQ SYSTEMS CORP      [30,DXS]
R 128.091.rrr.rrr    UPENN         UPenn Campus Network   [30,IW5]
R 128.092.rrr.rrr    INTELLINET    INTELLICORP NET       [30,DAVE]
R*128.093.rrr.rrr    INRIA-ROCQU   INRIA Rocquencourt       [MXA1]
R*128.094.rrr.rrr    SYSNET        AT&T SYSNETWORK           [EXY]
R 128.095.rrr.rrr    WASHINGTON    Comp Sci Ether Net     [30,RA17]
C*128.096.rrr.rrr    BELLCORE-NET  BELLCORE-NET             [PK28]
R 128.097.rrr.rrr    UCLANET       UCLA Network             [BJL5]
R 128.098.rrr.rrr    RSRE-EN2      RSRE-EXP-NET-2            [JXW]
C 128.099.rrr.rrr    NORTHROP-NET  Northrop Net           [30,RSM1]
R*128.100.rrr.rrr    TORONTO       U. of Toronto Net      [30,BXD]
R 128.101.rrr.rrr    UMN           Univ. of Minn.           [SSB]
G 128.102.rrr.rrr    AMES-NET      Ames Backbone Net.     [30,MSM1]
R 128.103.rrr.rrr    HARV-FIBER    Harvard FiberOp Ether  [30,SB28]
R 128.104.rrr.rrr    WISC-HERD     Univ. of Wisconsin    [30,EJN1]
R 128.105.rrr.rrr    WISC          Univ. of Wisconsin     [30,CBP]
D 128.106.rrr.rrr    SRI-PSON-1    ADEA/SRI Ft. Lewis       [ERK3]
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     D 128.107.rrr.rrr   LEWIS-PRNET1   ADEA/SRI Ft. Lewis         [ERK3]
     D 128.108.rrr.rrr   LEWIS-PRNET2   ADEA/SRI Ft. Lewis         [ERK3]
     R 128.109.rrr.rrr   TUCC-MCNC      TUCC-MCNC NC Net           [JXR]
     R 128.110.rrr.rrr   UTAH-NET       UTAH-CAMPUS-NET            [JL15]
     R 128.111.rrr.rrr   UCSB           U of CA, Santa Barbara     [PXH]
     R 128.112.rrr.rrr   PRINCETON      Princeton University       [LXR]
     R 128.113.rrr.rrr   RPINET         RPI-LOCALNET               [MS9]
     R 128.114.rrr.rrr   UCSC           U.C. Santa Cruz Net     [30,JXH]
     R 128.115.rrr.rrr   LLL-LABNET     LLNL Open Labnet          [BANDY]
     R 128.116.rrr.rrr   USAN           UNIV SATELLITE NET      [30,BXI]
     R 128.117.rrr.rrr   UCAR           UNIV CORP ATM RSCH      [30,BXI]
     R 128.118.rrr.rrr   PENN-STATE     Penn State Network        [SXS1]
     R 128.119.rrr.rrr   UMASS-CS       UMass COINS Dept LAN    [30,GXW]
     R 128.120.rrr.rrr   UCDAVIS        U.C. Davis Network      [30,RXH]
     R 128.121.rrr.rrr   JVNC-NET       John von Neumann Ctr Net  [SH37]
     R 128.122.rrr.rrr   NYU-NET        NYU Campus Network        [BJR2]
     R*128.123.rrr.rrr   NMSU           N M State Univ          [30,MXS3]
     R 128.124.rrr.rrr T NTA-TEMP       NTARE BF-TO-PDP11          [TM10]
     R 128.125.rrr.rrr   USCNET         USC Campus Network      [30,MAB4]
     R 128.126.rrr.rrr   SDC-PRC        SDC Paoli R&D Center    [30,MXS2]
     C*128.127.rrr.rrr   FTP-SOFTWARE   FTP Software Net          [JLR4]
     R 128.128.rrr.rrr   WHOINET        WHOI Campus Net           [ARM5]
     C*128.129.rrr.rrr   CGI            Carnegie Group            [RXA]
     R*128.130.rrr.rrr   TUNET-T        TU Wien Terminal Net    [30,GXP1]
     R*128.131.rrr.rrr   TUNET-F        TU Wien File Net        [30,GXP1]
     G*128.132.rrr.rrr   RADC-LONS      RADC-LONS Net           [30,GXG]
     G*128.133.rrr.rrr   AFSC-LONS      AFSC-LONS Net           [30,GXG]
     R 128.134.rrr.rrr   SDN            System Dev Net         [5,6,HXC]
     R 128.135.rrr.rrr   U-CHICAGO      UNIVERSITYOFCHICAGO     [30,MC17]
     R 128.136.rrr.rrr   TEK-ALLNET     Teknowledge-Net         [30,TE2]
     C*128.137.rrr.rrr   GENNET1        Genentech Corp Net      [30,SXM1]
     R 128.138.rrr.rrr   COLORADO       U Colorado Boulder      [30,RXJ1]
     R 128.139.rrr.rrr   ILAN           Israel Academic Net     [30,DB35]
     R 128.140.rrr.rrr   EMORY-INET     Emory Internet          [30,SA29]
     R*128.141.rrr.rrr   CERN-ETHER     DD Main Ethernet        [30,BXS]
     R*128.142.rrr.rrr   CERN-TOKEN     DD Main IBM Token Ring  [30,BXS]
     R*128.143.rrr.rrr   VIRGINIA       Univ. of Virginia       [30,JXJ1]
     R*128.144.rrr.rrr   ARC-CALGARY    Alta Research Calgary      [DXK]
     R 128.145.rrr.rrr   NYSERNET       NYSERNET                   [MXF]
     R 128.146.rrr.rrr   OHIO-STATE     Ohio State Univ           [RSD2]
     R 128.147.rrr.rrr   U-PGH-NET      Univ. Pittsburgh Net       [SM6]
     R 128.148.rrr.rrr   BROWN-UNIV     Brown University Net      [MXR1]
     G 128.149.rrr.rrr   JPL-NET        JPL Central Net           [MSM1]
     G 128.150.rrr.rrr   NSF-LAN        NSF-LAN                   [FW17]
     R 128.151.rrr.rrr   UR-NET         Univ. of Rochester        [TXM1]
     C*128.152.rrr.rrr   HAC-VLSI       Hughes Aircraft VLSI Net  [PXH1]
     R 128.153.rrr.rrr   CLARKSON       Clarkson University        [JXH]
     G 128.154.rrr.rrr   GSFC-NET       GSFC Central Net          [MSM1]
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      G 128.155.rrr.rrr   LARC-NET       LARC Central Net        [MSM1]
      G 128.156.rrr.rrr   LERC-NET       LERC Central Net        [MSM1]
      G 128.157.rrr.rrr   JSC-NET        JSC Central Net         [MSM1]
      G 128.158.rrr.rrr   MSFC-NET       MSFC Central Net        [MSM1]
      G 128.159.rrr.rrr   KSC-NET        KSC Central Net         [MSM1]
      G 128.160.rrr.rrr   NSTL-NET       NSTL Central Net        [MSM1]
      G 128.161.rrr.rrr   NSN-NET        NASA Science Net        [MSM1]
      C 128.162.rrr.rrr   CRAY-NET       Cray Research            [DXB]
      R 128.163.rrr.rrr   UKY            Univ of Kentucky         [GXB]
      R 128.164.rrr.rrr   GWU-GATE       George Washington U.     [TXT]
      G 128.165.rrr.rrr   LANL-INET      LANL Inter-Network      [JC11]
      D*128.166.rrr.rrr   BAC-NET        Boeing Aerospace Corp Net [JXJ2]
      R 128.167.rrr.rrr   SURA           SURAnet                 [JXH1]
      C 128.168.rrr.rrr   GOLDHILL       Gold-Hill-Computers      [GXM]
      R 128.169.rrr.rrr   UTK            Univ Tenn-Knoxville      [JXC]
      R 128.170.rrr.rrr   SDC-CAM        SDC Camarillo R&D Net    [DSR]
      R*128.171.rrr.rrr   HAWAII         Univ. of Hawaii          [BXC]
      R 128.172.rrr.rrr   VCU-LAN        VCU-LAN                  [JXN]
      R 128.173.rrr.rrr   VA-TECH        Virgina Tech Net         [PXB]
      R 128.174.rrr.rrr   UIUC-CAMPUS-B  UIUC Campus Network     [PXP1]
      R 128.175.rrr.rrr   UDELNET        U. of Delaware Network  [DJG2]
      R*128.176.rrr.rrr   DMSWWU-ETHER   DMSWWU ETHERNET         [WXW1]
      C*128.177.rrr.rrr   BLI-NET        Britton Lee Network      [EXA]
      R*128.178.rrr.rrr   EPF-ETHER1     Ecublens Campus Net      [YXD]
      R*128.179.rrr.rrr   EPF-ETHER2     Cedres Campus Net        [YXD]
      R*128.180.rrr.rrr   LEHIGH         Lehigh University       [MXM2]
      C*128.181.rrr.rrr   TEKTRONIX      Tektronix Engineering   [JXB2]
      R 128.182.rrr.rrr   PSCNET         PSC Affiliates Net      [JXE1]
      R 128.183.rrr.rrr   GSFC           GSFC NASA               [JXB3]
      R*128.184.rrr.rrr   DEAKINET       Deakinet Univ Net        [JXM]
      C 128.185.rrr.rrr   PROTEON-NET    Proteon Network         [JS28]
      R 128.186.rrr.rrr   FSU            Florida State Univ       [KXH]
      R*128.187.rrr.rrr   BYU-NET        Brigham Young Net        [KXM]
      R*128.188.rrr.rrr   M2CNET         Mass VLSI/CAD Net        [SD1]
      R*128.189.rrr.rrr   BCNET          British Columbia Net    [DXO1]
      G 128.190.rrr.rrr   BELVOIR-G/W    BRADEC Subnet            [DXH]
      C*128.191.rrr.rrr   NECIS-NET      NEC Info Systems Net     [DXP]
      R 128.192.rrr.rrr   UGA            UGNET                    [EXH]
      R 128.193.rrr.rrr   ORSTATE        Oregon State U. Net      [BXA]
      R 128.194.rrr.rrr   TAMU-NET       Texas A&M Univ          [WCE2]
      R 128.195.rrr.rrr   UCIICS-NET     UCI ICS Network         [RAJ3]
      R 128.196.rrr.rrr   UNIV-ARIZ      U of ARIZ Research Net  [AXG1]
      R 128.197.rrr.rrr   BU-NET         BU-NET                  [BS24]
      R*128.198.rrr.rrr   CU-COLOSPGS    CU-Colorado-Spgs-Net     [GXT]
      R*128.199.rrr.rrr   STC            STC PLC Company Net      [AXM]
      R 128.200.rrr.rrr   UCI-NET        UCI Campus Network      [DXW1]
      R*128.201.rrr.rrr   RENUIR         Reseau des universites  [RXN1]
      D 128.202.rrr.rrr   2SWNET         2 SW SPACENET LAN        [JXD]
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      R*128.203.rrr.rrr   UB-INC       Ungermann-Bass Inc          [DXC]
      R 128.204.rrr.rrr   ALBNYNET     U at Albany Net             [BXC]
      R 128.205.rrr.rrr   UBUFFALONET  UNIVOFBUFFALONET            [CXD]
      R 128.206.rrr.rrr   UBUFFCSNET   UNIVOFBUFFALOCSNET          [CXD]
        128.207.rrr.rrr-191.254.rrr.rrr Unassigned                [NIC]
        191.255.rrr.rrr                Reserved                   [JBP]
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   Class C Networks

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   *  Internet Address   Name         Network            References
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        192.000.000.rrr                Reserved                   [JBP]
      R 192.000.001.rrr   BBN-TEST-C   BBN-GATE-TEST-C            [RH6]
      R*192.000.002.rrr   TEST         TEST                       [JBP]
        192.000.003.rrr-192.000.255.rrr Unassigned                [NIC]
      R 192.001.000.rrr-192.001.004.rrr BBN local networks        [SGC]
      R 192.001.005.rrr   BBN-ENET2    BBN-ENET2                  [SGC]
      R 192.001.006.rrr                BBN local network          [SGC]
      R 192.001.007.rrr   BBN-ENET     BBN-ENET                   [SGC]
      R 192.001.008.rrr                BBN local network          [SGC]
      R 192.001.009.rrr   BBN-ENET3    BBN-ENET3                  [SGC]
      R 192.001.010.rrr   BBN-NETR     BBN-NETR                   [SGC]
      R 192.001.011.rrr   BBN-SPC-ENET BBN-SPC-ENET               [SGC]
      R 192.001.012.rrr-192.003.255.rrr BBN local networks        [SGC]
      R*192.004.000.rrr-192.004.255.rrr BELLCORE-NET          [30,PK28]
      R 192.005.001.rrr   CISLHYPERNET Honeywell                [JLM23]
      R*192.005.002.rrr   UF-NET-A     UF-CIS Dept Ether          [AXW]
      C 192.005.003.rrr   HP-DESIGN-AIDS HP Design Aids           [AXG]
      C 192.005.004.rrr   HP-TCG-UNIX  Hewlett Packard TCG Unix   [AXG]
      R 192.005.005.rrr   DEC-MRNET    DEC Marlboro Ethernet   [30,KWP]
      R 192.005.006.rrr   DEC-MRRAD    DEC Marlboro Developmt  [30,KWP]
      R 192.005.007.rrr   CIT-CS-NET   Caltech-CS-Net          [33,DSW]
      R 192.005.008.rrr   MACOMNET     MACOM Network              [SXB]
      R 192.005.009.rrr   AERONET      Aerospace Labnet         [1,LCN]
      R 192.005.010.rrr   ECLNET       USC-ECL-CAMPUS-NET        [MAB4]
      R 192.005.011.rrr   CSS-RING     SEISMIC-RESEARCH-NET       [RR2]
      R 192.005.012.rrr   UTAH-NET-C   UTAH-COMPUTER-SCIENCE-NET [GW22]
      R 192.005.013.rrr   GSWDNET      Compion Network          [30,FAS]
      R 192.005.014.rrr   RAND-NET     RAND Network             [30,JDG]
      R 192.005.015.rrr T NYU-NET-TEMP NYU Network                [EF5]
      R 192.005.016.rrr   LANLLAND     Los Alamos Dev LAN       [30,JC11]
      R 192.005.017.rrr   NRL-NET      Naval Research Lab          [AP]
      R 192.005.018.rrr   IPTO-NET     ARPA-IPTO Office Net       [SA2]
      R 192.005.019.rrr   UCIICS       UCI-ICS Res Net            [MTR]
      R 192.005.020.rrr   CISLTTYNET   Honeywell                [JLM23]
      D 192.005.021.rrr   BRLNET1      BRLNET1                  [4,MJM2]
      D 192.005.022.rrr   BRLNET2      BRLNET2                  [4,MJM2]
      D 192.005.023.rrr   BRLNET3      BRLNET3                  [4,MJM2]
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D 192.005.024.rrr   BRLNET4        BRLNET4                 [4,MJM2]
D 192.005.025.rrr   BRLNET5        BRLNET5                 [4,MJM2]
D 192.005.026.rrr   NSRDCOA-NET    NSRDC Office Auto Net      [TXC]
D 192.005.027.rrr   DTNSRDC-NET    DTNSRDC-NET                [TXC]
R 192.005.028.rrr   RSRE-NULL      RSRE-NULL                 [RNM1]
R 192.005.029.rrr   RSRE-ACC       RSRE-ACC                  [RNM1]
R 192.005.030.rrr   RSRE-PR        RSRE-PR                   [RNM1]
R*192.005.031.rrr   SIEMENS-NET    Siemens Research Network   [PXN]
R 192.005.032.rrr   CISLTESTNET2   Honeywell         [14,15 ,JLM23]
R 192.005.033.rrr   CISLTESTNET3   Honeywell         [14,15,JLM23]
R 192.005.034.rrr   CISLTESTNET4   Honeywell         [14,15,JLM23]
R 192.005.035.rrr   RIACS          USRA                   [30,WPJ]
R 192.005.036.rrr   CORNELL-CS     CORNELL CS Research    [30,DK2]
R 192.005.037.rrr   UR-CS-NET      U of R CS 3Mb Net     [30,LB16]
R 192.005.038.rrr   SRI-C3ETHER    SRI-AITAD C3ETHERNET   [30,BG5]
R 192.005.039.rrr   UDEL-EECIS     Udel EECIS LAN        [30,DJG2]
R 192.005.040.rrr   PUCC-NET-A     PURDUE Comp Cntr Net     [JRS8]
D 192.005.041.rrr   WISLAN         WIS Research LAN      [30,JRM1]
D 192.005.042.rrr   HYPER-1ISG     AFDSC Hypernet           [MCA1]
R 192.005.043.rrr   CUCSNET        Columbia CS Net        [30,LH2]
R 192.005.044.rrr   FARBER-PC-NET  Farber PC Network         [DJF]
R 192.005.045.rrr   AIDS-NET       AI&DS Network          [30,KFD]
R 192.005.046.rrr   NTA-RING       NDRE-RING                 [PS27]
R 192.005.047.rrr   NSRDC          NSRDC                     [PXM]
R 192.005.048.rrr   PURDUE-CS-NET  Purdue CS Ethernet     [30,CAK]
R 192.005.049.rrr   UCSF           Univ of Calif, San Fran [30,TF6]
R 192.005.050.rrr   CTH-CS-NET     Chalmers CSN Net       [30,UXB]
R 192.005.051.rrr   THEORYNET      Cornell Theory Center [30,AB13]
R 192.005.052.rrr   NLM-ETHER      NLM-LHNCBC-ETHERNET       [JA1]
R 192.005.053.rrr   UR-CS-ETHER    U of R CS 10Mb Net    [30,LB16]
R 192.005.054.rrr   AERO-A6        Aerospace              [1,LCN]
R 192.005.055.rrr   UCLA-CECS      UCLA-CECS Network      [30,RBW]
C 192.005.056.rrr   TARTAN-NET     Tartan Labs               [SXB]
R 192.005.057.rrr   UDEL-CC        UDEL Comp Center      [30,RR18]
R 192.005.058.rrr   CSNET-PDN      CSNET X.25 Network    [18,RDR4]
R*192.005.059.rrr   INRIA-SM90     Inria GIP SM-90           [MXS]
R*192.005.060.rrr   SM90-X1        Inria SM-90 exp. 1        [MXS]
R*192.005.061.rrr   SM90-X2        Inria SM-90 exp. 2        [MXS]
R*192.005.062.rrr   LITP-SM90      LITP SM-90                [MXS]
R 192.005.063.rrr   ENCORE         Encore-Marlboro           [IXN]
R 192.005.064.rrr   AMES-NAS-NET   NASA ARC NAS LAN      [30,MF31]
R 192.005.065.rrr   NPRDC-Ether    NPRDC TRCF Ethernet       [LRB]
R 192.005.066.rrr   HARV-NET       Harvard Comp Sci Net     [SB28]
R 192.005.067.rrr   CECOM-ETHER    CECOM ADDCOMPE ETHER   [30,GIH]
R 192.005.068.rrr   AERO-130       AEROSPACE-130             [LCN]
R 192.005.069.rrr   UIUC-NET       Univ of IL at Urbana   [30,AKC]
G 192.005.070.rrr   CELAN          COINS Exper. LAN          [MXM]
R 192.005.071.rrr   SAC-ETHER      SAC C3 Ethernet        [30,BG5]
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     R*192.005.072.rrr   U CHICAGO      U Chicago                 [TXN]
     R 192.005.073.rrr   U CHICAGO      U Chicago                 [TXN]
     R*192.005.074.rrr-192.005.087.rrr U Chicago                 [TXN]
     R 192.005.088.rrr   YALE-EE-NET    YALE-EE-NET            [30,AG22]
     R 192.005.089.rrr   HARV-APPOLLO   Harvard University      [2,SB28]
     R 192.005.090.rrr   HARV-ETHER     Harvard CS Ethernet       [SB28]
     R 192.005.091.rrr   PURDUE-ECN1    Purdue ECN            [9,17,GG11]
     R 192.005.092.rrr   BRAGG-ETHER    SRI Bragg Ether         [30,GIH]
     R 192.005.093.rrr   SRI-DEMO       SRI Ether Demo          [30,GIH]
     R*192.005.094.rrr   SDCRDCF-10MB   SDC R&D primary net     [30,DJV1]
     R*192.005.095.rrr   SDCRDCF-3MB    SDC R&D old net         [30,DJV1]
     R*192.005.096.rrr   UBC-CS-NET     UBC Comp Sci Net        [30,PXB]
     R*192.005.097.rrr   UCLA-CS-LNI    UCLA CS LNI Network       [RBW]
     R*192.005.098.rrr   UCLA-PIC       UCLA PIC Network        [30,RBW]
     R 192.005.099.rrr   SPACENET       S-1 Workstation Net.    [30,TXW]
     R*192.005.100.rrr   HCSC-NET       Honeywell CSC Net       [30,TRG4]
     R 192.005.101.rrr   PUCC-NET-B     Purdue Gateway Network    [JRS8]
     R 192.005.102.rrr   PUCC-RHF-NET   PUCC RHF Based Net        [JRS8]
     C*192.005.103.rrr   TYM-NTD-NET    Tymnet NTD Ethernet       [SMF]
     R 192.005.104.rrr   THINK-INET     Thinking Machines       [30,BJN1]
     R 192.005.105.rrr   CCA-POND       CCA Ethernet1 (POND)     [34,AL6]
     C*192.005.106.rrr   BITSTREAM      Bitstream Type Foundry  [30,PXA]
     R*192.005.107.rrr   PASC-ETHER     IBM PASC Ethernet       [30,GXL]
     R*192.005.108.rrr   PASC-BB        IBM PASC Broadband      [17,GXL]
     R*192.005.109.rrr   CWR-JCC-T      ARJCC TOPS-20 NET       [30,JAG3]
     R*192.005.110.rrr   CWR-JCC-L      ARJCC LOCAL NET         [30,JAG3]
     R*192.005.111.rrr   CWR-QUAD       Campus QUAD NET         [30,JAG3]
     R*192.005.112.rrr   CWR-CAISR      CAISR LOCAL NET         [30,JAG3]
     R*192.005.113.rrr   CWR-CES        CES LOCAL NET             [JAG3]
     C*192.005.114.rrr   I2-RING-1      INTERMETRICS PRONET     [30,NXH]
     C*192.005.115.rrr   I2-ETHER-1     INTERMETRICS ETHER      [30,NXH]
     R 192.005.116.rrr   BRAGGNET-1     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.117.rrr   BRAGGNET-2     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.118.rrr   BRAGGNET-3     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.119.rrr   BRAGGNET-4     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.120.rrr   BRAGGNET-5     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.121.rrr   BRAGGNET-6     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.122.rrr   BRAGGNET-7     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.123.rrr   BRAGGNET-8     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.124.rrr   BRAGGNET-9     BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.125.rrr   BRAGGNET-10    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.126.rrr   BRAGGNET-11    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.127.rrr   BRAGGNET-12    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.128.rrr   BRAGGNET-13    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.129.rrr   BRAGGNET-14    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.130.rrr   BRAGGNET-15    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.131.rrr   BRAGGNET-16    BRAGG/ADDCOMPE          [30,BG25]
     R 192.005.132.rrr   BRAGGNET-17    BRAGG/ADDCOMPE          [30,BG25]
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R*192.005.133.rrr   PERCEPT-AI      Perceptronics              [KXC]
C*192.005.134.rrr   I2-ETHER-2      Intermetrics            [30,NH2]
R 192.005.135.rrr   LL-SPEECH-NET   LL Speech Net           [30,RH60]
R 192.005.136.rrr   LL43-LEX-BACK   Lincoln G43-LEX-BACK    [30,BC65]
R 192.005.137.rrr   LL43-LEX-SUNA   Lincoln G43-LEX-SUNA    [30,BC65]
R 192.005.138.rrr   LL43-LEX-SUNB   Lincoln G43-LEX-SUNB    [30,BC65]
R 192.005.139.rrr   LL43-LEX-APO    Lincoln G43-LEX-APO     [30,BC65]
R 192.005.140.rrr   LL43-TB-BACK    Lincoln G43-TB-BACK     [30,BC65]
R 192.005.141.rrr   LL43-TB-APO     Lincoln G43-TB-APO      [30,BC65]
R*192.005.142.rrr   CCVR            CCVR Network            [30,RXD]
R 192.005.143.rrr   NWU             NORTHWESTERN               [AXS]
R 192.005.144.rrr   CRE-NET         CANADA-CRC-ETHERNET       [JR17]
R 192.005.145.rrr   ECRC-SL         ECRC-SL Net                [PXD]
R 192.005.146.rrr   CPW-PSC         Pittsburgh SC Center       [MXL]
R 192.005.147.rrr   ALV-ETHER       MMDAALVVAX                 [LXR]
R 192.005.148.rrr   DISE            Dist Sys Eval Envir       [RHS4]
R 192.005.149.rrr   RDL-ETHER       RDL                     [30,MXS1]
G*192.005.150.rrr   SP-ACE-NET      Sperry Space Sys Net    [30,JXM]
R 192.005.151.rrr   PENN-STATE-1    Penn State Network        [SXS1]
R 192.005.152.rrr   PENN-STATE-2    Penn State Network        [SXS1]
R 192.005.153.rrr   PENN-STATE-3    Penn State Network        [SXS1]
R 192.005.154.rrr   PENN-STATE-4    Penn State Network        [SXS1]
R 192.005.155.rrr   PENN-STATE-5    Penn State Network        [SXS1]
R 192.005.156.rrr   PENN-STATE-6    Penn State Network        [SXS1]
R 192.005.157.rrr   PENN-STATE-7    Penn State Network        [SXS1]
R 192.005.158.rrr   PENN-STATE-8    Penn State Network        [SXS1]
R 192.005.159.rrr   PENN-STATE-9    Penn State Network        [SXS1]
R 192.005.160.rrr   PENN-STATE-10   Penn State Network        [SXS1]
R 192.005.161.rrr   PENN-STATE-11   Penn State Network        [SXS1]
R 192.005.162.rrr   PENN-STATE-12   Penn State Network        [SXS1]
C*192.005.163.rrr   I2-SPDNET-1     I2 SPD Ethernet         [30,NH2]
C 192.005.164.rrr   GTEECN          GTE Eng Net             [30,JXE]
R 192.005.165.rrr   SDC-CAM-1       SDC Camarillo R&D Net      [DSR]
R*192.005.166.rrr   CRC-WDC-NET     CRC Washington DC         [GEOF]
R 192.005.167.rrr   MCC-AI-NET      MCC AI Subnet           [30,CBD]
R 192.005.168.rrr   MCC-CAD2-NET    MCC CAD2 Subnet         [30,CBD]
R 192.005.169.rrr   MCC-PKG-NET     MCC PKG Subnet          [30,CBD]
G 192.005.170.rrr   ANLNET1         Argonne Network         [30,LW26]
G 192.005.171.rrr   ANLNET2         Argonne Network         [30,LW26]
G 192.005.172.rrr   ANLNET3         Argonne Network         [30,LW26]
G 192.005.173.rrr   ANLNET4         Argonne Network         [30,LW26]
G 192.005.174.rrr   ANLNET5         Argonne Network         [30,LW26]
G 192.005.175.rrr   ANLNET6         Argonne Network         [30,LW26]
G 192.005.176.rrr   ANLNET7         Argonne Network         [30,LW26]
G 192.005.177.rrr   ANLNET8         Argonne Network         [30,LW26]
G 192.005.178.rrr   ANLNET9         Argonne Network         [30,LW26]
G 192.005.179.rrr   ANLNET10        Argonne Network         [30,LW26]
G 192.005.180.rrr   ANLNET11        Argonne Network         [30,LW26]
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    G 192.005.181.rrr    ANLNET12      Argonne Network          [30,LW26]
    G 192.005.182.rrr    ANLNET13      Argonne Network          [30,LW26]
    G 192.005.183.rrr    ANLNET14      Argonne Network          [30,LW26]
    G 192.005.184.rrr    ANLNET15      Argonne Network          [30,LW26]
    G 192.005.185.rrr    ANLNET16      Argonne Network          [30,LW26]
    G 192.005.186.rrr    ANLNET17      Argonne Network          [30,LW26]
    G 192.005.187.rrr    ANLNET18      Argonne Network          [30,LW26]
    G 192.005.188.rrr    ANLNET19      Argonne Network          [30,LW26]
    G 192.005.189.rrr    ANLNET20      Argonne Network          [30,LW26]
    G 192.005.190.rrr    ANLNET21      Argonne Network          [30,LW26]
    G 192.005.191.rrr    ANLNET22      Argonne Network          [30,LW26]
    G 192.005.192.rrr    ANLNET23      Argonne Network          [30,LW26]
    G 192.005.193.rrr    ANLNET24      Argonne Network          [30,LW26]
    G 192.005.194.rrr    ANLNET25      Argonne Network          [30,LW26]
    G 192.005.195.rrr    ANLNET26      Argonne Network          [30,LW26]
    G 192.005.196.rrr    ANLNET27      Argonne Network          [30,LW26]
    G 192.005.197.rrr    ANLNET28      Argonne Network          [30,LW26]
    G 192.005.198.rrr    ANLNET29      Argonne Network          [30,LW26]
    G 192.005.199.rrr    ANLNET30      Argonne Network          [30,LW26]
    G 192.005.200.rrr    ANLNET31      Argonne Network          [30,LW26]
    G 192.005.201.rrr    ANLNET32      Argonne Network          [30,LW26]
    R 192.005.202.rrr    FMC-CEL       FMC-CEL Host Net         [30,BXL1]
    R*192.005.203.rrr    OKSTATE-CS    Okla. St. CS Network     [30,MXV]
    R 192.005.204.rrr    SKL-ENET      Canada_SKL_ethernet      [JR17]
    R*192.005.205.rrr    ARC-CALGARY   Alta Research Calgary    [DXK]
    R 192.005.206.rrr    BU-MATHNET    BU-MATHNET               [BS24]
    R 192.005.207.rrr    BU-CHEMNET    BU-CHEMNET               [BS24]
    R 192.005.208.rrr    BU-CLANNET    BU-CLANNET               [BS24]
    D 192.005.209.rrr    SSDF-CDCNET   CDC-DDN-DEVELOPMENT      [RXE]
    G 192.005.210.rrr    ECSNET        Embedded Comp Sys Net    [CAL7]
    R 192.005.211.rrr    INTEL-IWARP   Intel iWarp Net          [30,BT5]
    R 192.005.212.rrr T  EMORY-INET4   Emory Internet 4         [SA29]
    R 192.005.213.rrr    HARRIS        Harris-GSSNet            [DXT1]
    C*192.005.214.rrr    DECUACNET     Decuac Network           [30,FXA]
    R 192.005.215.rrr    MASONNET      GMU Network              [30,TH15]
    R*192.005.216.rrr    NTT-NET       NTT Research Lab Net     [30,YXS]
    R 192.005.217.rrr    YALE-ZOO-NET  Yale Apollo Ed Net       [RC77]
    R 192.005.218.rrr    ARINC-GW-NET  Yale Apollo Ed Net       [YXN]
    R 192.005.219.rrr    CLEMSON       Clemson Univ Comp Center [DXB]
    C*192.005.220.rrr    SCCNET        SPACECOM IP Network      [MXO]
    C*192.005.221.rrr    CSC-LONS      CSC-LONS Network         [30,GXG]
    C*192.005.222.rrr    CSC-OIS       CSC-OIS Network          [30,GXG]
    R*192.005.223.rrr    HWELL-RE      HWELL-RESD-ENGRG         [30,PXP]
    D*192.005.224.rrr    HAIC-NET      Hughes AI Center Net     [30,DXK]
    C*192.005.225.rrr-192.005.236.rrr GE CALMA BLOCK            [30,TXR]
    C*192.005.237.rrr    PRIME-AI      Prime AI CAD/CAM         [22,NXS]
    C*192.005.238.rrr    PALLADIAN-1   Palladian-IN1            [CSTACY]
    C*192.005.239.rrr    PALLADIAN-2   Palladian-RING           [CSTACY]
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    C*192.005.240.rrr    PALLADIAN-3    Palladian-IN2         [CSTACY]
    R 192.005.241.rrr    USC-CYPRESS    USC Cypress Network     [8,DXE]
    C*192.005.242.rrr    MOT-ASIC       Motorola Chandler LAN   [GXW1]
    C*192.005.243.rrr    MOT-MESA       Motorola Mesa LAN       [GXW1]
    C*192.005.244.rrr    MOT-DOVER      Motorola Dover LAN      [GXW1]
    C*192.005.245.rrr    MOT-PRICE      Motorola Prince Road LAN [GXW1]
    C*192.005.246.rrr    MOT-PICO       Motorola Pico LAN       [GXW1]
    C*192.005.247.rrr    MOT-52ND       Motorola Semi MIS LAN   [GXW1]
    C*192.005.248.rrr    MOT-AUSTIN     Motorola Austin LAN     [GXW1]
    C*192.005.249.rrr    MOT-OAKHILL    Motorola Oakhill LAN    [GXW1]
    C*192.005.250.rrr    MOT-TELAVIV    Motorola Tel Aviv LAN   [GXW1]
    C*192.005.251.rrr    MOT-GENEVA     Motorola Geneva LAN     [GXW1]
    C*192.005.252.rrr    MOT-TOKYO      Motorola Tokyo LAN      [GXW1]
    C*192.005.253.rrr    MOT-HONGKONG   Motorola Hongkong LAN   [GXW1]
    R*192.005.254.rrr    ANSA           ANSA Project         [30,DXO]
      192.005.255.rrr    Unassigned     Unassigned             [NIC]
    C*192.006.000.rrr-192.006.255.rrr Hewlett Packard          [AXG]
    C*192.007.000.rrr-192.007.255.rrr Computer Consoles, Inc.  [RA11]
    C*192.008.000.rrr-192.008.255.rrr Spartacus Computers, Inc. [SXM]
    C*192.009.000.rrr-192.009.255.rrr SUN Microsystems, Inc.   [BN4]
    C*192.010.000.rrr-192.010.040.rrr Symbolics, Inc.          [CH2]
    R 192.010.041.rrr T SCRC-ETHERNET SCRC ETHERNET         [30,CH2]
    C*192.010.042.rrr-192.010.255.rrr Symbolics, Inc.          [CH2]
    C*192.011.000.rrr-192.011.255.rrr ATT, Bell Labs          [MH12]
    R 192.012.000.rrr    YALE-SUN-NET   YALE-SUN-NET           [LFO]
      192.012.001.rrr    Unassigned     Unassigned             [NIC]
      192.012.002.rrr    Unassigned     Unassigned             [NIC]
    C*192.012.003.rrr    FLAIR          Fairchild AI Lab Net [30,AMS1]
    C*192.012.004.rrr    SCG-NET        Hughes SCG Net       [32,MXP]
    R 192.012.005.rrr    AIC-LISPMS     SRI-AIC-LispMachNet  [30,PM4]
    R 192.012.006.rrr    NPS-C2         NPS-C2               [30,AW9]
    R 192.012.007.rrr T NYU-CS-ETHER   NYU CompSci Ethernet [30,LOU]
    D 192.012.008.rrr    PICANET1       Picatinny Arsenal LAN1 [30,RFD1]
    R 192.012.009.rrr T CADRE-NET       Decision Systems Lab   [SM6]
    R 192.012.010.rrr    CORNELL-ENG    Cornell-Engineering  [30,BN9]
    R 192.012.011.rrr    MIT-TEST       MIT Gateway TEST NET [30,NC3]
    G 192.012.012.rrr    NBS            NBS Network           [JCN2]
    R 192.012.013.rrr    JHU-NET1       JHU-NET1             [30,MO14]
    R 192.012.014.rrr    JHU-NET2       JHU-NET2             [30,MO14]
    R 192.012.015.rrr    BROOKNET       BNL Brooknet III      [30,GC]
    R 192.012.016.rrr    PRMNET         SRI-SURAN-EN         [30,BP17]
    G 192.012.017.rrr    LLL-TIS-NET    LLL-TIS-NET       [30,32,NAL]
    R 192.012.018.rrr    CIT-CS-10NET   Caltech 10Meg EtherNet [33,AD22]
    R 192.012.019.rrr    CIT-NET        Caltech Campus Net   [33,AD22]
    R 192.012.020.rrr    CIT-SUN-NET    Caltech Sun Net      [33,AD22]
    R 192.012.021.rrr    CIT-PHYSCOMP   Caltech Phys Comp Net [33,AD22]
    R 192.012.022.rrr    UTCSRES        UTCS Net Research    [30,JBC2]
    R 192.012.023.rrr    UTCSTTY        UTCS TTY Kludgenet   [30,JBC2]
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    R 192.012.024.rrr   MICANET         MITRE (Experimental)     [WDL]
    R 192.012.025.rrr   CSS-GRAMINAE    CSS Workstation Net    [16,RR2]
    R 192.012.026.rrr   NOSC-NETR       Net-R Testbed at BBN   [26,CP10]
    R 192.012.027.rrr   UR-LASER        UR Laser Energetics     [30,WXL]
    R*192.012.028.rrr   RIACS-X-NET     RIACS-Experimental-Net   [DG28]
    D 192.012.029.rrr   RF-EVANS        ADDCOMPE DC3 LAN1       [30,MB31]
    D 192.012.030.rrr   RF-HEX-A        ADDCOMPE DC3 LAN2       [30,MB31]
    D 192.012.031.rrr   USNA-ENET       USNA Engineering Net     [30,TS9]
    R*192.012.032.rrr   CMU-VINEYARD    CMU File Cluster Net     [30,MXK]
    R 192.012.033.rrr   SRI-CSL-NET     SRI-CSL 10MB Ethernet    [GEOF]
    C*192.012.034.rrr-192.012.043.rrr Schlumberger PA Net       [30,RXB]
    R 192.012.044.rrr T NRTC-NET        Northrop Research Net   [30,RSM1]
    R 192.012.045.rrr   ACC-SB-IMP-NET ACC Santa Barbara IMP     [AB20]
    R 192.012.046.rrr   ACC-SB-ETHER    ACC Santa Barbara Ethernet[AB20]
    R 192.012.047.rrr   UMN-UCC-NET     Univ. of Minnesota       [RG12]
    G 192.012.048.rrr   AMES-ED-EXPNET Code ED Exp. Net.        [30,MSM1]
    G 192.012.049.rrr   AMES-ED-NET     Code ED IP Net          [30,MSM1]
    G 192.012.050.rrr   AMES-DB-NET     Ames DBridge Net        [30,MSM1]
    R 192.012.051.rrr   THINK-CHAOS     TMC Chaos               [30,BJN1]
    R*192.012.052.rrr   NEURO-NET       NEURO-NET                [30,JXB]
    R*192.012.053.rrr   PU-LCA          Princeton U. LCA         [30,CXH]
    R 192.012.054.rrr   AERO-A3         Aerospace                [AWS3]
    R 192.012.055.rrr   HAZ-LPR-BETA    Hazeltine LPR Net        [30,KO11]
    R 192.012.056.rrr   UTAH-AP-NET     Utah-Appolo-Ring-Net     [JL15]
    R 192.012.057.rrr   MCC-CAD-NET     MCC CAD Subnet           [30,CBD]
    R 192.012.058.rrr   MCC-PP-NET      MCC AI Subnet            [30,CBD]
    R 192.012.059.rrr   MCC-DB-NET      MCC DB Subnet            [30,CBD]
    R 192.012.060.rrr   MCC-HI-NET      MCC HI Subnet            [30,CBD]
    R 192.012.061.rrr   MCC-SW-NET      MCC SW Subnet            [30,CBD]
    R 192.012.062.rrr   DREA-ENET       DREA Lispm & Vaxen       [30,GLH5]
    R 192.012.063.rrr   CYPRESS         CYPRESS Serial Net       [CAK]
    D 192.012.064.rrr   LOGNET          Logistics Net GW         [4,JR15]
    D 192.012.065.rrr   HELNET1         HELNET1                  [30,MJM2]
    D 192.012.066.rrr   HELNET2         HELNET2                  [30,MJM2]
    D 192.012.067.rrr   HELNET3         HELNET3                  [MJM2]
    G 192.012.068.rrr   ORNL-MSRNET     ORNL Local Area Net      [4,HD]
    R 192.012.069.rrr   UA-CS-NET       UNIV. OF ARIZ-CS DEPT  [30,BM40]
    R 192.012.070.rrr   NPRDC-IPD       NPRDC-IPD REMOTE ETHERNET  [LRB]
    R 192.012.071.rrr   NPRDC-ISG       NPRDC-ISG REMOTE ETHERNET  [LRB]
    R 192.012.072.rrr   ULCC            UK.AC.ULCC               [RHC3]
    R 192.012.073.rrr   BTRL            UK.CO.BT-RESEARCH-LABS   [RHC3]
    R*192.012.074.rrr   APPLE-ETHER     APPLE COMPUTER ETHER     [30,RXJ]
    R*192.012.075.rrr   PASC-RING       IBM PASC TOKEN RING      [GXL]
    R*192.012.076.rrr   UQ-NET          UNIV. OF QLD NETWORK     [30,AXH]
    C*192.012.077.rrr   PRIME           PRIME COMPUTER, INC.     [FXS]
    C*192.012.078.rrr   GENNET          GENENTECH NET            [30,SXM]
    C*192.012.079.rrr   SLI             SOFTWARE LEVERAGE INC.   [MXG]
    R 192.012.080.rrr   CAEN            UMICH-CAEN               [HWB]
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     R 192.012.081.rrr    YALE-RING-NET YALE RESEARCH RING      [RC77]
     C 192.012.082.rrr    CU-CC-NET     Columbia CC Net      [30,BC14]
     G 192.012.083.rrr    UCDLA-EXNET   UCDLA EXPERIMENTAL NET   [CXL]
     G 192.012.084.rrr    UCDLA-PCNET   UCDLA PERSONAL NET       [CXL]
     G 192.012.085.rrr    UCDLA-OPNET   UCDLA OPTICAL DISK       [CXL]
     G 192.012.086.rrr    UCDLA-RADNET  UCDLA PACKET RADIO       [CXL]
     G 192.012.087.rrr    UCDLA-CSLNET  UCDLA STATE LIBRARY      [CXL]
     R*192.012.088.rrr    RUTGERS-NWK   RUTGERS, NEWARK          [DXB]
     R 192.012.089.rrr    SBCS-CSDEPT-1 SB Computer Science      [JXS]
     R 192.012.090.rrr    SBCS-CSDEPT-2 SB Computer Science      [JXS]
     R 192.012.091.rrr    RPICSNET0     RPICS-LOCALNET-0         [MS9]
     R 192.012.092.rrr    RPICSNET1     RPICS-LOCALNET-1         [MS9]
     R 192.012.093.rrr    RPICSNET2     RPICS-LOCALNET-2         [MS9]
     R 192.012.094.rrr    RPICSNET3     RPICS-LOCALNET-3         [MS9]
     R 192.012.095.rrr    RPICSNET4     RPICS-LOCALNET-4         [MS9]
     R 192.012.096.rrr    RPICSNET5     RPICS-LOCALNET-5         [MS9]
     R 192.012.097.rrr    RPICSNET6     RPICS-LOCALNET-6         [MS9]
     R 192.012.098.rrr    RPICSNET7     RPICS-LOCALNET-7         [MS9]
     R 192.012.099.rrr    RPICSNET8     RPICS-LOCALNET-8         [MS9]
     R 192.012.100.rrr    RPICSNET9     RPICS-LOCALNET-9         [MS9]
     R*192.012.101.rrr    OSU-CGRG      OSU Computer Graphics [30,KXS]
     G 192.012.102.rrr    AMES-NAS-HY   AMES NAS HY NET         [MF31]
     R 192.012.103.rrr    CSU-USCETHER  Colorado State Univ Nets [RXB1]
     R 192.012.104.rrr    CSUNRELETHER  Colorado State Univ Nets [RXB1]
     R 192.012.105.rrr    CSU-ASYNC     Colorado State Univ Nets [RXB1]
     R 192.012.106.rrr    CSU-LANCE     Colorado State Univ Nets [RXB1]
     R 192.012.107.rrr    CSU-ATMOS     Colorado State Univ Nets [RXB1]
     R 192.012.108.rrr    CSU-UCC-ETHER Colorado State Univ Nets [RXB1]
     R*192.012.109 rrr-192.012.118.rrr Colorado State Univ Nets [RXB1]
     G 192.012.119.rrr    ICST          ICST Network         [30,JCN2]
     D 192.012.120.rrr    MITRE-B-NET   MITRE BEDFORD ETHER      [BSW]
     R*192.012.121.rrr    FSUCS         FSU COMPUTER SCIENCE 1   [TXB]
     R*192.012.122.rrr    FSUCS2        FSU COMPUTER SCIENCE 2   [TXB]
     G 192.012.123.rrr    AMES-CCF-NET  AMES CCF NETWORK     [30,MSM1]
     D 192.012.124.rrr    ETL-LAN       ETL LOCAL AREA NET    [30,WWS]
     D 192.012.125.rrr    CRDC-NET1     CRDC-NET1             [30,JXY]
     D 192.012.126.rrr    CRDC-NET2     CRDC-NET2             [30,JXY]
     R 192.012.127.rrr    LL-MI-NET     LL-Machine Intell.    [30,GAA]
     R 192.012.128.rrr    AITAC-ADMIN   SRI-AITAC ADMIN NET   [30,DVC]
     C*192.012.129.rrr    SYM-CAN       Symbolics/Canada         [MXH]
     R 192.012.130.rrr    SDC-SM        SDC Santa Monica         [CAS]
     R 192.012.131.rrr    SAC-ADMIN     SRI-SAC ADMIN NET     [30,KMC3]
     R 192.012.132.rrr    LLL-MON       LLL Open Labnet-1   [30,BANDY]
     R 192.012.133.rrr    LLL-TUE       LLL Open Labnet-2   [30,BANDY]
     R 192.012.134.rrr    LLL-WED       LLL Open Labnet-3   [30,BANDY]
     R 192.012.135.rrr    LLL-THU       LLL Open Labnet-4   [30,BANDY]
     R 192.012.136.rrr    LLL-FRI       LLL Open Labnet-5   [30,BANDY]
     R 192.012.137.rrr    LLL-SAT       LLL Open Labnet-6   [30,BANDY]
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    R 192.012.138.rrr   LLL-SUN        LLL Open Labnet-7   [30,BANDY]
    D 192.012.139.rrr   JTELS-BEN-GW   JUMPS Teleprocessing    [RR26]
    R*192.012.140.rrr   INFERENCE      INFERENCE                [DXT]
    R 192.012.141.rrr   CSS-ETHER      CSS Workstation Net 2   [RA11]
    C*192.012.142.rrr   SENTRY         Sentry Adv. Prod. Net    [LXL]
    C*192.012.143.rrr   VHSIC-NET      Sentry VHSIC Test        [LXL]
    R 192.012.144.rrr   ECRCNET        ECRC Internet        [30,PXD]
    C*192.012.145 rrr-192.012.154.rrr RCA-CADNET        [30,RXG]
    C*192.012.155 rrr-192.012.170.rrr MTCS-CUST             [SXF]
    D 192.012.171.rrr   PICANET2       Picatinny Arsenal 2     [RFD1]
    R 192.012.172.rrr   ROCKWELLENET   ROCKWELL ETHERNET         [NG]
    R 192.012.173.rrr   AERO-D8        Aerospace               [AWS3]
    R*192.012.174 rrr-192.012.183.rrr TORONTO           [30,BXD]
    R 192.012.184.rrr   DSPO-NET       BRL Hyper Proj Net       [BT5]
    R 192.012.185.rrr   BU-NET         BU COMPUTING            [BS24]
    R 192.012.186.rrr   BU-ACCNET      BU ACADEMIC             [BS24]
    R 192.012.187.rrr   BU-BROADB      BU BROADBAND            [BS24]
    R 192.012.188.rrr   BU-SCINET      BU SCIENCE              [BS24]
    R 192.012.189.rrr   BU-ENGNET      BU ENGINEERING          [BS24]
    R 192.012.190.rrr   BU-DSGNET      BU DIST SYS             [BS24]
    R 192.012.191.rrr   BU-MEDNET      BU MED SCHOOL           [BS24]
    R 192.012.192.rrr   CNUCE-LAN1     CNR Pisa Ethernet       [ABB2]
    R 192.012.193.rrr   CNUCE-LAN2     CNR Pisa Ethernet       [ABB2]
    R 192.012.194.rrr   CNUCE-LAN3     CNR Pisa Ethernet       [ABB2]
    R 192.012.195.rrr   SDC-PRC-NET    SDC Paoli R&D Center    [MXS2]
    D 192.012.196.rrr   JHUAPL-NET     JHU APL Net         [30,SAK3]
    D 192.012.197.rrr   ACATT-ETHER1   ADEA/CECOM Adv Tech [30,ERK3]
    D 192.012.198.rrr   ACATT-ETHER2   ADEA/CECOM Adv Tech [30,ERK3]
    D 192.012.199.rrr   LEWIS-ETHER1   ADEA/SRI Ft. Lewis  [30,ERK3]
    D 192.012.200.rrr   SRI-PSON-10    ADEA/SRI Ft. Lewis  [30,ERK3]
    D 192.012.201.rrr   SRI-PSON-11    ADEA/SRI Ft. Lewis  [30,ERK3]
    D 192.012.202.rrr   SRI-PSON-12    ADEA/SRI Ft. Lewis  [30,ERK3]
    D 192.012.203.rrr   SRI-PSON-13    ADEA/SRI Ft. Lewis  [30,ERK3]
    D 192.012.204.rrr   SRI-PSON-14    ADEA/SRI Ft. Lewis  [30,ERK3]
    R 192.012.205.rrr   OHIO-STATE1    Ohio State Univ.        [RSD2]
    R 192.012.206.rrr   INDIANA        Indiana-Bloomington     [BXS1]
    R 192.012.207.rrr   SUPERCOMP      SDSC-Supercomputer       [SIP]
      192.012.208.rrr   Unassigned     Unassigned               [NIC]
    R 192.012.209.rrr   NSF            NSF Internal Net        [FW17]
    R*192.012.210.rrr   NORTHEASTERN   Northeastern Univ.       [CXJ]
    R 192.012.211.rrr   JVNC           NSF/JVNC Net             [HXH]
    R 192.012.212.rrr   RAND-NET2      RAND-NET2                [JDG]
    R 192.012.213.rrr   RAND-NET3      RAND-NET3                [JDG]
    R*192.012.214.rrr   BUFFALO-CS     SUNY/Buffalo-CS-Ether [30,JRL8]
    R 192.012.215.rrr   XDRENET        DRE X.25 COMPONENT       [JR17]
    R 192.012.216.rrr   STEVENS-TECH   Stevens Inst of Tech [30,RXM]
    R 192.012.217.rrr T EMORY-INET1    Emory Internet      [30,SA29]
    R 192.012.218.rrr T EMORY-INET2    Emory Internet      [30,SA29]
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     R 192.012.219.rrr T EMORY-INET3   Emory Internet       [30,SA29]
     R 192.012.220 rrr-192.012.234.rrr UWISC-IPNET          [30,EJN1]
     R*192.012.235.rrr   IDA-NET       Comp Sc Linkoping S    [MXA2]
     R 192.012.236.rrr   CITNET        CIT Campus Net        [30,CXB]
     R*192.012.237.rrr   HCSC-APOLLO   Honeywell CSC Apollo   [2,TRG4]
     R*192.012.238.rrr   CU-BOULDER    CU Boulder Campus     [30,DXW]
     R*192.012.239.rrr   CU-ACS        CU ACS Net            [30,DXW]
     R*192.012.240.rrr   CU-ENGINEER   CU Engineering Net    [30,DXW]
     R*192.012.241.rrr   CU-SUNNET     CU Sun Net            [30,DXW]
     R*192.012.242.rrr   CU-CER        CU CER Net            [30,DXW]
     R*192.012.243.rrr   CU-OT         CU Office Tower       [30,DXW]
     R*192.012.244.rrr   CU-ENTERPRISE CU ECE Sun Net        [30,DXW]
     R*192.012.245.rrr   CU-LASP       CU LASP Net           [30,DXW]
     R*192.012.246.rrr   CU-JILA       CU JILA Net           [30,DXW]
     R*192.012.247.rrr   CU-PHYSICS    CU Physics Net        [30,DXW]
     R*192.012.248.rrr   CU-PSYCHOLOGY CU Psychology Net     [30,DXW]
     R*192.012.249.rrr   CU-MCDB       CU MCDB Net           [30,DXW]
     R*192.012.250.rrr   CU-AI         CU AI Consortium      [30,DXW]
     R*192.012.251.rrr   CU-CHEMISTRY  CU Chemistry Net      [30,DXW]
     R 192.012.252.rrr   LL-VENET1     Linclon Labs Venet1   [30,BC65]
     R 192.012.253.rrr   LL-VENET2     Linclon Labs Venet2   [30,BC65]
     R 192.012.254.rrr   LL-APOLLO     Linclon Labs Apollo   [30,BC65]
     R 192.012.255.rrr   LL-ENET       Linclon Labs Enet     [30,BC65]
     D 192.013.000.rrr-192.014.255.rrr DODIIS Subnetworks      [AY5]
     C*192.015.000.rrr-192.015.255.rrr NBINET                  [WW2]
     G 192.016.000.rrr-192.016.049.rrr LANLLAN               [30,JC11]
     R 192.016.050.rrr-192.016.071.rrr RPI-LOCALNETS         [30,MS9]
     R 192.016.072.rrr   UTCHPC        U.T. System CHPC      [30,WCB3]
     R 192.016.073.rrr   UTDALLAS      U.T. Dallas           [30,WCB3]
     R 192.016.074.rrr   UTABRC        U.T. Austin BRC       [30,WCB3]
     C*192.016.075.rrr-192.016.122.rrr CSC-BLOCK             [30,GXG]
     R*192.016.123.rrr-192.016.154.rrr Swedish Network         [BXE]
     R*192.016.155.rrr-192.016.166.rrr CERN-Block              [BXS]
     R 192.016.167.rrr   YALE-HP-NET   YALE-HP-NET            [RC77]
     D 192.016.168.rrr   PICANET3      Picatinny 3            [RFD1]
     D 192.016.169.rrr   NRL-HUBNET    Experimental Hubnet     [MPM]
     C 192.016.170.rrr   TWG-DEMO-NET  TWG Net for Demos      [JXS1]
     R 192.016.171.rrr   MACOM         M/A-COM Net             [JXA]
     C*192.016.172.rrr   EIK-ENG       Eikonix Eng'rg Net      [SXW]
     D 192.016.173.rrr   CDA-LAN       Catalog Data Act LAN   [FJS3]
     R 192.016.174.rrr   LL-MICRO-NET  LL Microelectronics Net [GLD]
     R 192.016.175.rrr   GUACC         GU Academic Net        [SXA1]
     R 192.016.176.rrr   LSUNET        LSU Campus Ethernet     [CXB]
     R 192.016.177.rrr   UABSURA       Univ Ala at Bham        [LXM]
     R*192.016.178.rrr   NTT-Y-ETHER   NTT-Y-ETHER             [RXN]
     R*192.016.179.rrr   NTT-Y-APOLLO  NTT-Y-APOLLO            [RXN]
     R 192.016.180.rrr   AMS           Amer. Math Society     [SXW1]
     R 192.016.181.rrr   LL-DSN-NET    LL Dist Sensor Net      [GAA]
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        R*192.016.182.rrr    GTICS-SUNS    GT ICS Faculty Suns      [GXS]
        R*192.016.183.rrr-192.016.202.rrr WCW-LAN                   [JA]
        R*192.016.203.rrr    HCSC-SUN      Honeywell CSC SUN        [TRG4]
        R 192.016.204.rrr    IASNET        Inst for Adv Study       [KXJ]
          192.016.205.rrr-192.016.255.rrr Unassigned               [NIC]
        R*192.017.000.rrr-192.017.255.rrr NIBELUNG                  [MXA]
        C*192.018.000.rrr-192.018.255.rrr SUN Microsystems, Inc.    [BN4]
        C*192.019.000.rrr-192.019.255.rrr SYSNET-2                  [EXY]
        C*192.020.000.rrr-192.020.255.rrr ATT-MD-NET             [30,MH12]
        C*192.021.000.rrr-192.021.255.rrr FORMATIVE                 [SXB1]
        C*192.022.000.rrr-192.022.255.rrr APPLICON                  [AXS1]
        C*192.023.000.rrr-192.023.255.rrr FACTNET                   [JXB]
        C*192.024.000.rrr-192.024.255.rrr CHROMATICS                [RXB2]
        R*192.025.000.rrr-192.024.255.rrr Hewlett Packard           [SXI]
        D*192.026.000.rrr    ACSAD         ACSAD Network            [SXH]
        R 192.026.001.rrr    MCC-DB1-NET   MCC DB1 Network          [CBD]
        R 192.026.002.rrr    MCC-DB2-NET   MCC DB2 Network          [CBD]
        R 192.026.003.rrr    MCC-DB3-NET   MCC DB3 Network          [CBD]
        R 192.026.004.rrr    MCC-DB4-NET   MCC DB4 Network          [CBD]
        R 192.026.005.rrr    MCC-DB5-NET   MCC DB5 Network          [CBD]
        R 192.026.006.rrr    MCC-DB6-NET   MCC DB6 Network          [CBD]
        R 192.026.007.rrr    SPAWAR        SPARWAR Systems Command  [JK7]
        D 192.026.008.rrr    SAIC-CPVB     SAIC-CPVB                [MXW]
        R*192.026.009.rrr    ICOT          ICOT Local Network       [SXT]
        R 192.026.010.rrr    GALLAUDET     GALLAUDET UNIVERSITY     [KXC]
        D 192.026.011.rrr    NRL-HUBNET1   Experimental Hubnet 1    [MPM]
        D 192.026.012.rrr    NRL-HUBNET2   Experimental Hubnet 2    [MPM]
        D 192.026.013.rrr    NRL-HUBNET3   Experimental Hubnet 3    [MPM]
        D 192.026.014.rrr    NRL-HUBNET4   Experimental Hubnet 4    [MPM]
        D 192.026.015.rrr    NRL-HUBNET5   Experimental Hubnet 5    [MPM]
        D 192.026.016.rrr    NRL-HUBNET6   Experimental Hubnet 6    [MPM]
        D 192.026.017.rrr    NRL-HUBNET7   Experimental Hubnet 7    [MPM]
        D 192.026.018.rrr    NRL-HUBNET8   Experimental Hubnet 8    [MPM]
        D 192.026.019.rrr    NRL-HUBNET9   Experimental Hubnet 9    [MPM]
        R*192.026.020.rrr    NJIT-NET      NJIT-SUPERCOMPUTER       [BXC]
        R 192.026.021.rrr    SDC-PRC-SW    SDC/PAOLI SOFT TECH      [MXS2]
        R 192.026.022.rrr    SDC-PRC-LBS   SDC/PAOLI ARTIF INT      [MXS2]
        R 192.026.023.rrr    SDC-PRC-SA    SDC/PAOLI SYS ARCH       [MXS2]
        R 192.026.024.rrr    SDC-PRC-CR    SDC/PAOLI COMP RES       [MXS2]
        R 192.026.025.rrr    LUCID         Lucid Network            [BXM]
        D 192.026.026.rrr    NRL-FIBER     NRL Fiber Optic Net      [WF3]
        R 192.026.027.rrr    ROCKEFELLER   ROCKEFELLER UNIV      [30,MK38]
        R*192.026.028.rrr-192.026.047.rrr EPFL                      [YXD]
        R*192.026.048.rrr    DART-ETHER    Dartmouth Ethernet       [SXC]
        R*192.026.049.rrr    DUNET         U of Denver Network      [BXS3]
        C*192.026.050.rrr-192.026.082.rrr Silicon Graphics Inc      [RXB]
        R*192.026.083.rrr    CSM-NET       Colorado School of Mines [RXW]
        R 192.026.084.rrr    NPRDC-FTC     NPRDC-FTC Remote Ethernet [LRB]
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     R 192.026.085.rrr    NUSAN         NU Supercomp Access Net   [EEW6]
     R 192.026.086.rrr    PHYSICS-SAC   NU Physics                [EEW6]
     R 192.026.087.rrr    MS-SAC        NU Material Science SAC   [EEW6]
     R 192.026.088.rrr    YALE-ENG-NET  YALE-ENG-NET              [LFO]
     D 192.026.089.rrr    JTELS-BEN1-GW JTELS-BEN1-GW             [RR26]
     C*192.026.090.rrr    SYNTELNET-A   Syntelligence IPNET-A     [RXR]
     R*192.026.091.rrr    KDD           KDD Research Net          [TXA]
     R*192.026.092.rrr    WRIGHT        Wright State University   [JXS]
     R*192.026.093.rrr    AECL-NET      NTT Atsugi Lab Net        [TXK]
     R*192.026.094.rrr    NTT-AP-NET    NTT ECL Appolo Net        [HXM]
     R 192.026.095.rrr    LL-VLSI-NET   Lincoln Lab VLSI Net      [AHA]
     R*192.026.096.rrr    FX-NTC-NET2   FX-Tokyo-10BM-Net2        [SXY]
     C*192.026.097.rrr    RCA-SNOOPY    Peanut Net                [RXR1]
     C*192.026.098.rrr    TASC-CTC-NET  TASC Reading CTC Net      [RXR2]
     C 192.026.099.rrr    FAI           FAI Local Net             [MWS10]
     C 192.026.100.rrr    PROTEON-EXP1  Proteon Exp Net 1         [JS28]
     C 192.026.101.rrr    PROTEON-EXP2  Proteon Exp Net 2         [JS28]
     C 192.026.102.rrr    PROTEON-EXP3  Proteon Exp Net 3         [JS28]
     D 192.026.103.rrr    EXNET         CECOM Exp Net             [MB31]
     R*192.026.104.rrr-192.026.135.rrr FINLAND                   [JXH]
     R*192.026.136.rrr    UW-TEMP       Univ. of Washington       [RA17]
     R 192.026.137.rrr-192.026.146.rrr SYR-MH-NET                [JXW]
     R 192.026.147.rrr    WLV-ETHER     ETN-WLV-ETHER             [SMS1]
     R 192.026.148.rrr    UMDNJ-NRAC    UMDNJ-NRAC NJMS           [LXM]
     R 192.026.149.rrr    LL43-LEX-SUNC Grp43 Lexington Net C     [VXK]
     R 192.026.150.rrr    LL43-TB-SUNA  Grp43 Testbed Net A       [VXK]
     C*192.026.151.rrr    LATICORP      LatiCorp Net              [CXC]
       192.026.152.rrr-192.026.255.rrr Unassigned                [NIC]
     C*192.027.000.rrr-192.027.255.rrr Hughes Aircraft VLSI      [PXH1]
     C*192.028.000.rrr-192.028.099.rrr MMM                       [LXS]
       192.028.100.rrr-192.028.255.rrr Unassigned                [NIC]
     C*192.029.000.rrr-192.029.255.rrr SUN-NET                   [BN4]
       192.030.000.rrr-223.255.254.rrr Unassigned                [NIC]
       223.255.255.rrr                 Reserved                  [JBP]
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   Other Reserved Internet Addresses

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   * Internet Address    Name          Network            References
   - ----------------    ----          -------            ----------
     224.000.000.000-239.255.255.255 Multicast            [10,JBP]
     240.000.000.000-255.255.255.255 Reserved                [JBP]
```

Network Totals

Assigned for the ARPA-Internet and the DDN-Internet

Class	A	B	C	Total
Research	13	109	804	926
Defense	9	20	50	79
Government	1	15	98	114
Commercial	3	5	10	18
Total	26	149	962	1137

Allocated for Internet and Independent Uses

Class	A	B	C	Total
Research	14	134	1796	1944
Defense	9	21	52	82
Government	1	17	99	117
Commercial	3	16	4372	4391
Total	27	188	6319	6534

Maximum Allowed

Class	A	B	C	Total
Research	8	1024	65536	66568
Defense	24	3072	458752	461848
Government	24	3072	458752	461848
Commercial	74	9214	1114137	1123394
Total	126	16382	2097150	2113658

                     AUTONOMOUS SYSTEM NUMBERS

   The Exterior Gateway Protocol (EGP) [25,27] specifies that groups of
   gateways may form autonomous systems. The EGP provides a 16-bit
   field for identifying such systems. The values of this field are
   registered here.

   Autonomous System Numbers:

Decimal	Name	References
0	Reserved	[JBP]
1	The BBN Core Gateways	[MB]
2	DCN-AS	[DLM1]
3	The MIT Gateways	[LM8]
4	ISI-AS	[JKR1]
5	Symbolics	[CH2]
6	HIS-Multics	[JLM23]
7	UK-MOD	[RNM1]
8	RICE-AS	[PGM]
9	CMU-ROUTER	[MA]
10	CSNET-PDN-AS	[RDR4]
11	HARVARD	[SB28]
12	NYU-DOMAIN	[EF5]
13	BRL-AS	[RBN1]
14	COLUMBIA-GW	[BC14]
15	NET DYNAMICS EXP	[ZSU]
16	LBL	[WG]
17	PURDUE-CS	[KCS1]
18	UTEXAS	[JBC2]
19	CSS-DOMAIN	[RR2]
20	UR	[LB16]
21	RAND	[JDG]
22	NOSC	[RLB3]
23	RIACS-AS	[DG28]
24	AMES-NAS-GW	[MF31]
25	UCB	[MK17]
26	CORNELL	[BN9]
27	UMDNET	[JWO1]
28	DFVLR-SYS	[GB7]
29	YALE-AS	[JG46]
30	SRI-AICNET	[PM4]
31	CIT-CS	[AD22]
32	STANFORD	[PA5]
33	DEC-WRL-AS	[RKJ2]
34	UDEL-EECIS	[NMM]
35	MICATON	[WDL]
36	EGP-TESTOR	[BP17]

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37   NSWC                                              [MXP1]
38   UIUC                                               [AKC]
39   NRL-ITD                                             [AP]
40   MIT-TEST                                           [NC3]
41   AMES                                              [MSM1]
42   THINK-AS                                          [BJN1]
43   BNL-AS                                              [GC]
44   S1-DOMAIN                                          [LWR]
45   LLL-TIS-AS                                         [NAL]
46   RUTGERS                                            [RM8]
47   USC-OBERON                                        [DRS4]
48   NRL-AS                                             [WF3]
49   ICST-AS                                           [JCN2]
50   ORNL-MSRNET                                        [THD]
51   USAREUR-EM-AS                                      [WXD]
52   UCLA                                               [BXL]
53   NORTHROP-AS                                       [RSM1]
54   COA-FIN-NET                                        [RR26]
55   UPENN-CIS                                          [IW5]
56   OPTIMIS-P                                          [JXL]
57   UMN-REI-UC                                         [HWB]
58   DREA-AS                                           [GLH5]
59   WISC-MADISON-AS                                   [EJN1]
60   DARPA-BFLY                                          [MB]
61   DEC-MARLBORO-AS                                    [WM3]
62   TEKVAXC                                            [TE2]
63   LL-MI                                              [RTL]
64   MITRE-B-AS                                         [BSW]
65   LOGNET-AS                                          [JR15]
66   ETL-AI                                            [MMM3]
67   SDC-PRC-AS                                        [MXS2]
68   LANL-INET-AS                                      [JC11]
69   WHARTON-AS                                         [GBR]
70   NLM-GW                                             [JA1]
71   SU-TEST                                            [KSL]
72   SPAR-AS                                            [RXB]
73   WASHINGTON-AS                                     [RA17]
74   XDRENET-AS                                        [JR17]
75   ANL-AS                                            [LW26]
76   SDC-CAM-AS                                         [DSR]
77   JHUAPL-AS                                         [SAK3]
78   SSDF-CDC-GW                                       [RE22]
79   DSPO-HC-AS                                         [BT5]
80   GE-CRD                                           [JC106]
81   TUCC-MCNC                                          [JXR]
82   TWG-DEMO-AS                                        [JXS1]
83   PICANET-AS                                        [RFD1]
84   DTNSRDC-AS1                                        [RWT2]
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        85   AERO-NET                                          [LCN]
        86   SURANET-AS                                        [JXH1]
        87   INDIANA-AS                                        [BXS1]
        88   PRINCETON-AS                                      [LXR]
        89   NUSC-CSTLNET-AS                                   [MP20]
        90   SUN-AS                                            [WM3]
        91   RPI-AS                                            [MS9]
        92   CLARKSON-AS                                       [JXH]
        93   FORD-AS                                           [KR9]
        94   BELVOIR-NET                                       [DXH]
        95   NUSCLSB1                                          [RPP]
        96   JTELS-BEN1-AS                                     [RR26]
        97   JVNC-AS                                           [SH37]
        98   ROCKEFELLER-AS                                    [MK38]
        99   INTEL-IWARP                                       [WXM]
       100   FMC-CEL                                           [BXL1]
   101-65534  Unassigned                                       [NIC]
     65535   Reserved                                          [JBP]
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[DXS]     Don Scelza            PERQ        ---none---
[DXT]     Dave Taylor           INFERENCE   ---none---
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```

APPENDIX A

The network numbers in class A, B, and C network addresses are
allocated among Research, Defense, Government (Non-Defense) and
Commercial uses.

Class A (highest-order bit 0)

```
   Research allocation:            8
   Defense allocation:            24
   Government allocation:         24
   Commercial allocation:         94
   Reserved Addresses:   (0, 127)
   Total                         128
```

Class B (highest-order bits 1-0)

```
   Research allocation:          1024
   Defense allocation:           3072
   Government allocation:        3072
   Commercial allocation:       12286
   Reserved Addresses: (0, 16383)
   Total                        16384
```

Class C (highest-order bits 1-1-0)

```
   Research allocation:          65536
   Defense allocation:          458725
   Government allocation:       458725
   Commercial allocation:      1572862
   Reserved Addresses: (0, 2097151)
   Total                       2097152
```

Class D (highest-order bits 1-1-1-0)

   All addresses in this class are allocated for multicast use.

Class E (highest-order bits 1-1-1-1)

   All addresses in this class are reserved for future use.

Experimental networks which later become operational need not be
renumbered. Rather, the identifiers could be moved from Research to
Defense, Government or Commercial status. Thus, network identifiers
may change state among Research, Defense, Government and Commercial,
but the number of identifiers allocated to each use must remain
within the limits indicated above. To make possible this fluid
assignment, the network identifier spaces are not allocated by simple
partition, but rather by specific assignment.

Also, organizations not currently affiliated with the Internet may be
assigned numbers for networks for non-connected service. If at some
later time such networks are connecteed to the Internet (with
appropriate prermissions and approvals) the networks need not be
renumbered.