                     Request for Comments Summary

                       RFC Numbers 1100-1199

Status of This Memo

   This RFC is a slightly annotated list of the 100 RFCs from RFC 1100
   through RFCs 1199. This is a status report on these RFCs. This memo
   provides information for the Internet community. It does not specify
   an Internet standard. Distribution of this memo is unlimited.

Note

   Many RFCs, but not all, are Proposed Standards, Draft Standards, or
   Standards. Since the status of these RFCs may change during the
   standards processing, we note here only that they are on the
   standards track. Please see the latest edition of "IAB Official
   Protocol Standards" for the current state and status of these RFCs.
   In the following, RFCs on the standards track are marked [STANDARDS-
   TRACK].

RFC   Author   Date   Title
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1199   Reynolds   Dec 91   Requests For Comments Summary

This memo.

1198   Scheifler   Jan 91   FYI on the X Window System

This FYI RFC provides pointers to the published standards of the MIT X
Consortium. This memo provides information for the Internet community.
It does not specify any Internet standard.

1197   Sherman   Dec 90   Using ODA for Translating Multimedia
                               Information

The purpose of this RFC is to inform implementors of multimedia systems
about our experiences using ISO 8613: Office Document Architecture
(ODA). Because ODA is being proposed as an encoding format for use in
multimedia mail and file exchange, implementors wishing to use ODA in an

open systems environment may profit from our experiences. This memo
provides information for the Internet community. It does not specify
any standard.

1196   Zimmerman   Dec 90   The Finger User Information Protocol

This memo describes the Finger User Information Protocol. This is a
simple protocol which provides an interface to a remote user information
program. Based on RFC 742, a description of the original Finger
protocol, this memo attempts to clarify the expected communication
between the two ends of a Finger connection. It also tries not to
invalidate the many existing implementations or add unnecessary
restrictions to the original protocol definition. This edition corrects
and clarifies in a minor way, RFC 1194. [STANDARDS-TRACK]

1195   Callon   Dec 90   Use of OSI IS-IS for Routing in TCP/IP
                               and Dual Environments

This memo specifies an integrated routing protocol, based on the OSI
Intra-Domain IS-IS Routing Protocol, which may be used as an interior
gateway protocol (IGP) to support TCP/IP as well as OSI. This allows a
single routing protocol to be used to support pure IP environments, pure
OSI environments, and dual environments. This specification was
developed by the IS-IS working group of the Internet Engineering Task
Force. [STANDARDS-TRACK]

1194   Zimmerman   Nov 90   The Finger User Information Protocol

This memo describes the Finger User Information Protocol. This is a
simple protocol which provides an interface to a remote user information
program. Based on RFC 742, a description of the original Finger
protocol, this memo attempts to clarify the expected communication
between the two ends of a Finger connection. It also tries not to
invalidate the many existing implementations or add unnecessary
restrictions to the original protocol definition. [STANDARDS-TRACK]

1193   Ferrari   Nov 90   Client Requirements for Real-Time
                               Communication Services

This memo describes client requirements for real-time communication
services. This memo provides information for the Internet community,
and requests discussion and suggestions for improvements. It does not
specify any standard.

1192   Kahin   Nov 90   Commercialization of the Internet
                                  Summary Repor

This memo is based on a workshop held by the Science, Technology and
Public Policy Program of the John F. Kennedy School of Government,
Harvard University, March 1-3, 1990. This memo provides information for
the Internet community. It does not specify any standard.

1191   Mogul   Nov 90   Path MTU Discovery

This memo describes a technique for dynamically discovering the maximum
transmission unit (MTU) of an arbitrary internet path. It specifies a
small change to the way routers generate one type of ICMP message. For
a path that passes through a router that has not been so changed, this
technique might not discover the correct Path MTU, but it will always
choose a Path MTU as accurate as, and in many cases more accurate than,
the Path MTU that would be chosen by current practice. [STANDARDS-
TRACK]

1190   Topolcic   Oct 90   Experimental Internet Stream Protocol,
                                  Version 2 (ST-II)

This memo defines a revised version of the Internet Stream Protocol,
originally defined in IEN-119 [8], based on results from experiments
with the original version, and subsequent requests, discussion, and
suggestions for improvements. This is a Limited-Use Experimental
Protocol. Please refer to the current edition of the "IAB Official
Protocol Standards" for the standardization state and status of this
protocol.

1189   Warrier   Oct 90   The Common Management Information
                                  Services and Protocols for the Internet

This memo defines a network management architecture that uses the
International Organization for Standardization's (ISO) Common Management
Information Services/Common Management Information Protocol (CMIS/CMIP)
in the Internet. [STANDARDS-TRACK]

1188   Katz   Oct 90   A Proposed Standard for the
                                  Transmission of IP Datagrams over
                                  FDDI Networks

This memo defines a method of encapsulating the Internet Protocol (IP)
datagrams and Address Resolution Protocol (ARP) requests and replies on

Fiber Distributed Data Interface (FDDI) Networks. [STANDARDS-TRACK]

1187   Rose   Oct 90   Bulk Table Retrieval with the SNMP

This memo reports an interesting family of algorithms for bulk table
retrieval using the Simple Network Management Protocol (SNMP). This
memo describes an Experimental Protocol for the Internet community, and
requests discussion and suggestions for improvements. This memo does
not specify a standard for the Internet community. Please refer to the
current edition of the "IAB Official Protocol Standards" for the
standardization state and status of this protocol.

1186   Rivest   Oct 90   The MD4 Message Digest Algorithm

This RFC is the specification of the MD4 Digest Algorithm. If you are
going to implement MD4, it is suggested you do it this way. This memo
is for informational use and does not constitute a standard.

1185   Jacobson   Oct 90   TCP Extension for High-Speed Paths

This memo describes an Experimental Protocol extension to TCP for the
Internet community, and requests discussion and suggestions for
improvements. Please refer to the current edition of the "IAB Official
Protocol Standards" for the standardization state and status of this
protocol.

1184   Borman   Oct 90   Telnet Linemode Option

This RFC specifies a procedure for line at a time terminal interaction
based on the Telnet Protocol. It obsoletes RFC 1116. [STANDARDS-TRACK]

1183   Everhart   Oct 90   New DNS RR Definitions

This memo defines five new DNS types for experimental purposes. This
RFC describes an Experimental Protocol for the Internet community, and
requests discussion and suggestions for improvements.

1182   Never issued.

1181   Blokzijl   Sep 90   RIPE Terms of Reference

This RFC describes the Terms of Reference of RIPE (Reseaux IP
Europeens), the cooperation of European IP networks. This memo provides
information for the Internet community. It does not specify any
standard.

1180   Socolofsky   Jan 91   A TCP/IP Tutorial

This RFC is a tutorial on the TCP-IP protocol suite, focusing
particularly on the steps in forwarding an IP datagram from source host
to destination host through a router. It does not specify an Internet
standard.

1179   McLaughlin   Aug 90   Line Printer Daemon Protocol

This RFC describes an existing print server protocol widely used on the
Internet for communicating between line printer daemons (both clients
and servers). This memo is for informational purposes only, and does
not specify an Internet standard. Please refer to the current edition
of the "IAB Official Protocol Standards" for the standardization state
and status of this protocol.

1178   Libes   Aug 90   Choosing a Name for Your Computer

This FYI RFC is a republication of a Communications of the ACM article
on guidelines on what to do and what not to do when naming your
computer. This memo provides information for the Internet community.
It does not specify any standard. [Also FYI 5.]

1177   Malkin   Aug 90   FYI on Questions and Answers
                               Answers to Commonly asked "New
                               Internet User" Questions

This FYI RFC is one of three FYI's called, "Questions and Answers"
(Q/A), produced by the User Services Working Group (USWG) of the
Internet Engineering Task Force (IETF). The goal is to document the
most commonly asked questions and answers in the Internet. This memo
provides information for the Internet community. It does not specify
any standard. [Also FYI 4.]

1176   Crispin   Aug 90   Interactive Mail Access Protocol -
                               Version 2

This RFC suggests a method for personal computers and workstations to
dynamically access mail from a mailbox server ("repository"). It
obsoletes RFC 1064. This RFC specifies an Experimental Protocol for
the Internet community. Discussion and suggestions for improvement are
requested. Please refer to the current edition of the "IAB Official
Protocol Standards" for the standardization state and status of this
protocol.

1175   Bowers   Aug 90   FYI on Where to Start - A Bibliography
                               of Internetworking Information

This FYI RFC is a bibliography of information about TCP/IP
internetworking, prepared by the User Services Working Group (USWG) of
the Internet Engineering Task Force (IETF). This memo provides
information for the Internet community. It does not specify any
standard. [Also FYI 3.]

1174   Cerf   Aug 90   IAB Recommended Policy on Distributing
                               Internet Identifier Assignment and
                               IAB Recommended Policy
                               Change to Internet "Connected" Status

This informational RFC represents the official view of the Internet
Activities Board (IAB), and describes the recommended policies and
procedures on distributing Internet identifier assignments and dropping
the connected status requirement. This RFC does not specify a standard.

1173   Van Bokkelen Aug 90   Responsibilities of Host and Network
                               Managers: A Summary of the "Oral
                               Tradition" of the Internet

This informational RFC describes the conventions to be followed by those
in charge of networks and hosts in the Internet. It is a summary of the
"oral tradition" of the Internet on this subject. [RFC Editor's note:
This memo is a contribution by the author of his view of these
conventions. It is expected that this RFC will provide a basis for the
development of official policies in the future.] These conventions may
be supplemented or amended by the policies of specific local and
regional components of the Internet. This RFC does not specify a
standard, or a policy of the IAB.

1172   Perkins   Jul 90   The Point-to-Point Protocol (PPP)
                              Initial Configuration Options

This memo specifies the Point-to-Point Protocol (PPP) Initial
Configuration Options as a Proposed Standard Protocol for the Internet
community. When it becomes a full Standard, this protocol will be
recommended for all TCP/IP implementations that communicate over serial
links.

1171   Perkins   Jul 90   The Point-to-Point Protocol for the
                              Transmission of Multi-Protocol Datagrams
                              Over Point-to-Point Links

This memo specifies the Point-to-Point Protocol (PPP) as a Draft
Standard Protocol for the Internet community. When it becomes a full
Standard, this protocol will be recommended for all TCP/IP
implementations that communicate over serial links.

1170   Fougner   Jan 91   Public Key Standards and Licenses

This RFC is a public statement by Public Key Partners regarding Public
Key Standards and Licenses. This memo is for informational use only,
and does not constitute an Internet standard.

1169   Cerf   Aug 90   Explaining the Role of GOSIP

This informational RFC represents the official view of the Internet
Activities Board (IAB), after coordination with the Federal Networking
Council (FNC). This RFC does not specify a standard.

1168   Westine   Jul 90   Intermail and Commercial Mail
                              Relay Services

This RFC discusses the history and evolution of the Intermail and
Commercial mail systems. The problems encountered in operating a
store-and-forward mail relay between commercial systems such as
Telemail, MCI Mail and Dialcom are also discussed. This RFC provides
information for the Internet community, and does not specify any
standard.

1167   Cerf   Jul 90   Thoughts on the National Research and
                               Education Network

The memo provides a brief outline of a National Research and Education
Network (NREN). This memo provides information for the Internet
community. It does not specify any standard. It is not a statement of
IAB policy or recommendations.

1166   Kirkpatrick Jul 90   Internet Numbers

This memo is a status report on the network numbers and autonomous
system numbers used in the Internet community.

1165   Crowcrowft   Jun 90   Network Time Protocol (NTP)
                               over the OSI Remote Operations Service

This memo suggests an Experimental Protocol for the OSI and Internet
communities. Hosts in either community, and in particular those on both
are encouraged to experiment with this mechanism.

1164   Honig   Jun 90 Application of the Border Gateway
                               Protocol in the Internet

This RFC, together with its companion RFC-1163, "A Border Gateway
Protocol (BGP)", specify an inter-autonomous system routing protocol for
the Internet. [STANDARDS-TRACK]

1163   Lougheed   Jun 90   A Border Gateway Protocol (BGP)

This RFC, together with its companion RFC-1164, "Application of the
Border Gateway Protocol in the Internet", specify an inter-autonomous
system routing protocol for the Internet. [STANDARDS-TRACK]

1162   Satz   Jun 90   Connectionless Network Protocol
                               (ISO 8473) and End System to
                               Intermediate System (ISO 9542)
                               Management Information Base

This memo defines an experimental portion of the Management Information
Base (MIB) for use with network management protocols in TCP/IP-based
internets. This memo does not specify a standard for the Internet
community.

1161   Rose   Jun 90   SNMP over OSI

This memo defines an experimental means for running the Simple Network
Management Protocol (SNMP) over OSI transports. This memo does not
specify a standard for the Internet community,

1160   Cerf   May 90   The Internet Activities Board

This RFC provides a history and description of the Internet Activities
Board (IAB) and its subsidiary organizations. This memo is for
informational use and does not constitute a standard. This is a
revision of RFC 1120.

1159   Nelson   Jun 90   Message Send Protocol

This RFC suggests an Experimental Protocol for the Internet community.
Hosts on the Internet that choose to implement a Message Send Protocol
may experiment with this protocol.

1158   Rose   May 90   Management Information Base for
                               Network Management of TCP/IP-based
                               internets: MIB-II

This memo defines the second version of the Management Information Base
(MIB-II) for use with network management protocols in TCP/IP- based
internets. In particular, together with its companion memos which
describe the structure of management information (RFC 1155) along with
the network management protocol (RFC 1157) for TCP/IP- based internets,
these documents provide a simple, workable architecture and system for
managing TCP/IP-based internets and in particular the Internet
community.

This document on MIB-II incorporates all of the technical content of RFC
1156 on MIB-I and extends it, without loss of compatibilty.
[STANDARDS-TRACK]

1157   Case   May 90   A Simple Network Management
                               Protocol (SNMP)

This RFC is a re-release of RFC 1098, with a changed "Status of this
Memo" section plus a few minor typographical corrections. This memo
defines a simple protocol by which management information for a network
element may be inspected or altered by logically remote users.
[STANDARDS-TRACK]

1156   McCloghrie   May 90   Management Information Base for
                                Network Management of
                                TCP/IP-based internets

This RFC is a re-release of RFC 1066, with a changed "Status of this
Memo", "IAB Policy Statement", and "Introduction" sections plus a few
minor typographical corrections. The technical content of the document
is unchanged from RFC 1066. [STANDARDS-TRACK]

1155   Rose   May 90   Structure and Identification of
                                Management Information for
                                TCP/IP-based Internets

This RFC is a re-release of RFC 1065, with a changed "Status of this
Memo", plus a few minor typographical corrections. The technical
content of the document is unchanged from RFC 1065. [STANDARDS-TRACK]

1154   Robinson   Apr 90   Encoding Header Field for
                                Internet Messages

This RFC proposes an elective experimental Encoding header field to
permit the mailing of multi-part, multi-structured messages.

The use of Encoding updates RFC 1049 (Content-Type), and is a suggested
update to RFCs 1113, 1114, and 1115 (Privacy Enhancement).

1153   Wancho   Apr 90   Digest Message Format

This memo describes the de facto standard Digest Message Format. This
is an elective experimental protocol.

1152   Partridge   Apr 90   Workshop Report: Internet Research
                                Steering GroupWorkshop on
                                Very-High-Speed Networks

This memo is a report on a workshop sponsored by the Internet Research
Steering Group. This memo is for information only. This RFC does not
specify an Internet standard.

1151   Partridge   Apr 90   Version 2 of the Reliable Data
                                Protocol (RDP)

This RFC suggests several updates to the specification of the Reliable

Data Protocol (RDP) in RFC-908 based on experience with the protocol.
This revised version of the protocol is experimental.

1150   Malkin   Mar 90   F.Y.I on F.Y.I:
                                 Introduction to the F.Y.I. Notes

This memo is the first in a new sub-series of RFCs called FYIs (For Your
Information). This memo provides information for the Internet
community. It does not specify any standard. [Also FYI 1.]

1149   Waitzman   Apr 90   A Standard for the Transmission of
                                 IP Datagrams on Avian Carriers

This memo describes an experimental method for the encapsulation of IP
datagrams in avian carriers. This specification is primarily useful in
Metropolitan Area Networks. This is an experimental, not recommended
standard.

1148   Kille   Mar 90   Mapping between X.400(1988) /
                                 ISO 10021 and RFC 822

This RFC suggests an electronic mail protocol mapping for the Internet
community and UK Academic Community, and requests discussion and
suggestions for improvements. This memo does not specify an Internet
standard. This edition includes material lost in editing.

1147   Stine   Apr 90   FYI on a Network Management Tool
                                 Catalog: Tools for Monitoring and
                                 Debugging TCP/IP Internets
                                 and Interconnected Devices

The goal of this FYI memo is to provide practical information to site
administrators and network managers. This memo provides information for
the Internet community. It does not specify any standard. It is not a
statement of IAB policy or recommendations. [Also FYI 2.] This catalog
contains descriptions of several tools available to assist network
managers in debugging and maintaining TCP/IP internets and
interconnected communications resources. Entries in the catalog tell
what a tool does, how it works, and how it can be obtained.

1146   Zweig   Mar 90   TCP Alternate Checksum Options

This memo is suggests a pair of TCP options to allow use of alternate
data checksum algorithms in the TCP header. The use of these options is
experimental, and not recommended for production use. Note: This RFC
corrects errors introduced in the editing process in RFC 1145.

1145   Zweig   Feb 90   TCP Alternate Checksum Options

This memo is suggests a pair of TCP options to allow use of alternate
data checksum algorithms in the TCP header. The use of these options is
experimental, and not recommended for production use.

1144   Jacobson   Feb 90   Compressing TCP/IP Headers for
                                Low-Speed Serial Links

This RFC describes a method for compressing the headers of TCP/IP
datagrams to improve performance over low speed serial links. The
motivation, implementation and performance of the method are described.
C code for a sample implementation is given for reference. [STANDARDS-
TRACK]

1143   Bernstein   Feb 90   The Q Method of Implementing TELNET
                                Option Negotiation

This is RFC discusses an implementation approach to option negotiation
in the Telnet protocol (RFC 854). It does not propose any changes to
the TELNET protocol. Rather, it discusses the implementation of the
protocol of one feature, only. This is not a protocol specification.
This is an experimental method of implementing a protocol.

1142   Oran   Feb 90   OSI IS-IS Intra-domain Routing Protocol

This RFC is a republication of ISO DP 10589 as a service to the
Internet community. This is not an Internet standard.

1141   Mallory   Jan 90   Incremental Updating of the
                                Internet Checksum

This memo correctly describes the incremental update procedure for use
with the standard Internet checksum. It is intended to replace the
description of Incremental Update in RFC 1071. This is not a standard
but rather, an implementation technique.

1140   Postel   May 90   IAB Official Protocol Standards

This memo describes the state of standardization of protocols used in
the Internet as determined by the Internet Activities Board (IAB).

This memo is issued quarterly, please be sure the copy you are reading
is dated within the last three months. Current copies may be obtained
from the Network Information Center or from the Internet Assigned
Numbers Authority. Do not use this edition after 31-Aug-90.

1139   Hagens   Jan 90   An Echo Function for ISO 8473

This memo defines an echo function for the connection-less network layer
protocol. Two mechanisms are introduced that may be used to implement
the echo function. The first mechanism is recommended as an interim
solution for the Internet community. The second mechanism will be
progressed to the ANSI X3S3.3 working group for consideration as a work
item.

When an ISO standard is adopted that provides functionality similar to
that described by this memo, then this memo will become obsolete and
superceded by the ISO standard. This memo is not intended to compete
with an ISO standard. [STANDARDS-TRACK]

1138   Kille   Dec 89   Mapping between X.400(1988) / ISO 10021
                               and RFC 822

Ths RFC suggests an electronic mail protocol mapping for the Internet
community and UK Academic Community, and requests discussion and
suggestions for improvements. This memo does not specify an Internet
standard. This memo updates RFCs 822, 987, and 1026.

1137   Kille   Dec 89   Mapping Between Full RFC 822 and
                               RFC 822 with Restricted Encoding

This RFC suggests an electronic mail protocol mapping for the Internet
community and UK Academic Community, and requests discussion and
suggestions for improvements. This memo does not specify an Internet
standard.

1136   Hares   Dec 89   Administrative Domains and Routing Domains
                               A Model for Routing in the Internet

This RFC proposes a model for describing routing within the Internet.

The model is an adaptation of the "OSI Routeing Framework". This memo
does not specify an Internet standard.

1135   Reynolds   Dec 89   The Helminthiasis of the Internet

This memo takes a look back at the helminthiasis (infestation with, or
disease caused by parasitic worms) of the Internet that was unleashed
the evening of 2 November 1988. This RFC provides information about an
event that occurred in the life of the Internet. This memo does not
specify any standard.

This document provides a glimpse at the infection, its festering, and
cure. The impact of the worm on the Internet community, ethics
statements, the role of the news media, crime in the computer world, and
future prevention is discussed. A documentation review presents four
publications that describe in detail this particular parasitic computer
program. Reference and bibliography sections are also included.

1134   Perkins   Nov 89   The Point-to-Point Protocol: A Proposal
                             for Multi-Protocol Transmission of
                             Datagrams Over Point-to-Point Links

This proposal is the product of the Point-to-Point Protocol Working
Group of the Internet Engineering Task Force (IETF). Comments on this
memo should be submitted to the IETF Point-to-Point Protocol Working
Group chair by January 15, 1990. Comments will be reviewed at the
February 1990 IETF meeting, with the goal of advancing PPP to draft
standard status. [STANDARDS-TRACK]

1133   Yu   Nov 89   Routing between the NSFNET and the DDN

This document is a case study of the implementation of routing between
the NSFNET and the DDN components (the MILNET and the ARPANET). We hope
that it can be used to expand towards interconnection of other
Administrative Domains. We would welcome discussion and suggestions
about the methods employed for the interconnections. No standards are
specified in this memo.

1132   McLaughlin Nov 89   A Standard for the Transmission of
                             802.2 Packets over IPX Networks

This document specifies a standard method of encapsulating 802.2 packets
on networks supporting Novell's Internet Packet Exchange Protocol (IPX).
It obsoletes earlier documents detailing the transmission of Internet

packets over IPX networks. It differs from these earlier documents in
that it allows for the transmission of multiple network protocols over
IPX and for the transmission of packets through IPX bridges.

1131   Moy   Oct 89   The OSPF Specification

This RFC is the specification of the Open Shortest Path First (OSPF)
Internet routing protocol. OSPF is in the class of Internal Gateway
Protocols (IGPs) for distributing routing information between gateways
of a single Autonomous System. This routing protocol is based on the
link-state approach (in contrast to the distance-vector approach). This
specification was developed by the OSPF Working Group of the Internet
Engineering Task Force. [STANDARDS-TRACK]

1130   Postel   Oct 89   IAB Official Protocol Standards

This memo describes the state of standardization of protocols used in
the Internet as determined by the Internet Activities Board (IAB).

1129   Mills   Oct 89   Internet Time Synchronization:
                                  the Network Time Protocol

This memo describes the Network Time Protocol (NTP) designed to
distribute time information in a large, diverse internet system
operating at speeds from mundane to lightwave. It uses a returnable-
time architecture in which a distributed subnet of time servers
operating in a self-organizing, hierarchical, master-slave configuration
synchronizes local clocks within the subnet and to national time
standards via wire or radio. The servers can also redistribute time
information within a network via local routing algorithms and time
daemons.

The architectures, algorithms and protocols which have evolved to NTP
over several years of implementation and refinement are described in
this paper. The synchronization subnet which has been in regular
operation in the Internet for the last several years is described along
with performance data which shows that timekeeping accuracy throughout
most portions of the Internet can be ordinarily maintained to within a
few tens of milliseconds, even in cases of failure or disruption of
clocks, time servers or networks.

This memo describes the Network Time Protocol in RFC-1119.

Reynolds   [Page 15]

1128   Mills   Oct 89   Measured Performance of the Network Time
                                 Protocol in the Internet System

This paper describes a series of experiments involving over 100,000
hosts of the Internet system and located in the U.S., Europe and the
Pacific. The experiments are designed to evaluate the availability,
accuracy and reliability of international standard time distribution
using the DARPA/NSF Internet and the Network Time Protocol (NTP), which
is specified in RFC-1119. NTP is designed specifically for use in a
large, diverse internet system operating at speeds from mundane to
lightwave. In NTP a distributed subnet of time servers operating in a
self-organizing, hierarchical, master-slave configuration exchange
precision timestamps in order to synchronize subnet clocks to each other
and national time standards via wire or radio.

The experiments are designed to locate Internet hosts and gateways that
provide time by one of three time distribution protocols and evaluate
the accuracy of their indications. For those hosts that support NTP,
the experiments determine the distribution of errors and other
statistics over paths spanning major portions of the globe. Finally,
the experiments evaluate the accuracy and reliability of precision
timekeeping using NTP and typical Internet paths involving DARPA, NSFNET
and other agency networks. The experiments demonstrate that timekeeping
accuracy throughout most portions of the Internet can be ordinarily
maintained to within a few tens of milliseconds, even in cases of
failure or disruption of clocks, time servers or networks.

This memo does not specify a standard.

1127   Braden   Oct 89   Perspective on Host Requirements

This RFC is for information only; it does not constitute a standard,
draft standard, or proposed standard, and it does not define a protocol.

1126   Little   Oct 89   Goals and Functional Requirements for
                                 Inter-Autonomous System Routing

This document describes the functional requirements for a routing
protocol to be used between autonomous systems. This document is
intended as a necessary precursor to the design of a new inter-
autonomous system routing protocol and specifies requirements for the
Internet applicable for use with the current DoD IP, the ISO IP, and
future Internet Protocols. It is intended that these requirements will
form the basis for the future development of a new inter-autonomous
systems routing architecture and protocol. This memo does not specify a
standard.

1125   Estrin   Nov 89   Policy Requirements for Inter
                               Administrative Domain Routing

The purpose of this memo is to focus discussion on particular problems
in the Internet and possible methods of solution. No proposed solutions
in this document are intended as standards for the Internet. Rather, it
is hoped that a general consensus will emerge as to the appropriate
solution to such problems, leading eventually to the development and
adoption of standards.

1124   Leiner   Sep 89   Policy Issues in Interconnecting Networks

To support the activities of the Federal Research Internet Coordinating
Committee (FRICC) in creating an interconnected set of networks to serve
the research community, two workshops were held to address the technical
support of policy issues that arise when interconnecting such networks.
Held under the suspices of the Internet Activities Board at the request
of the FRICC, and sponsored by NASA through RIACS, the workshops
addressed the required and feasible technologies and architectures that
could be used to satisfy the desired policies for interconnection. The
purpose of this RFC is to report the results of these workshops.

1123   Braden   Oct 89   Requirements for Internet Hosts --
                               Application and Support

This RFC is an official specification for the Internet community. It
incorporates by reference, amends, corrects, and supplements the primary
protocol standards documents relating to hosts. [STANDARDS-TRACK]

1122   Braden   Oct 89   Requirements for Internet Hosts --
                               Communication Layers

This RFC is an official specification for the Internet community. It
incorporates by reference, amends, corrects, and supplements the primary
protocol standards documents relating to hosts. [STANDARDS-TRACK]

1121   Postel   Sep 89   Act One - The Poems

This RFC presents a collection of poems that were presented at "Act
One", a symposium held partially in celebration of the 20th anniversary
of the ARPANET.

1120   Cerf   Sep 89   The Internet Activities Board

This RFC provides a history and description of the Internet Activities
Board (IAB) and its subsidiary organizations. This memo is for
informational use and does not constitute a standard.

1119   Mills   Sep 89   Network Time Protocol (Version 2)
                               Specification and Implementation

This document describes the Network Time Protocol (NTP), specifies its
formal structure and summarizes information useful for its
implementation. NTP provides the mechanisms to synchronize time and
coordinate time distribution in a large, diverse internet operating at
rates from mundane to lightwave. It uses a returnable-time design in
which a distributed subnet of time servers operating in a self-
organizing, hierarchical-master-slave configuration synchronizes local
clocks within the subnet and to national time standards via wire or
radio. The servers can also redistribute reference time via local
routing algorithms and time daemons. [STANDARDS-TRACK]

1118   Krol   Sep 89   The Hitchhikers Guide to the Internet

This RFC is being distributed to members of the Internet community in
order to make available some "hints" which will allow new network
participants to understand how the direction of the Internet is set, how
to acquire online information and how to be a good Internet neighbor.
While the information discussed may not be relevant to the research
problems of the Internet, it may be interesting to a number of
researchers and implementors. No standards are defined or specified in
this memo.

1117   Romano   Aug 89   Internet Numbers

This memo is an official status report on the network numbers and the
autonomous system numbers used in the Internet community.

1116   Borman   Aug 89   Telnet Linemode Option

Hosts on the Internet that support Linemode within the Telnet protocol
are expected to adopt and implement this protocol. Obsoleted by RFC
1184. [STANDARDS-TRACK]

1115   Linn   Aug 89   Privacy Enhancement for Internet
                                Electronic Mail: Part III --
                                Algorithms, Modes, and Identifiers

This RFC provides definitions, references, and citations for
algorithms, usage modes, and associated identifiers used in RFC-1113
and RFC-1114 in support of privacy-enhanced electronic mail.
[STANDARDS-TRACK]

1114   Kent   Aug 89   Privacy Enhancement for Internet
                                Electronic Mail: Part II --
                                Certificate-Based Key Management

This RFC specifies the key management aspects of Privacy Enhanced Mail.
[STANDARDS-TRACK]

1113   Linn   Aug 89   Privacy Enhancement for Internet
                                Electronic Mail: Part I -- Message
                                Encipherment and Authentication
                                Procedures

This RFC specifies features for private electronic mail based on
encryption technology. [STANDARDS-TRACK]

1112   Deering   Aug 89   Host Extensions for IP Multicasting

This memo specifies the extensions required of a host implementation of
the Internet Protocol (IP) to support multicasting. Recommended
procedure for IP multicasting in the Internet. This RFC obsoletes RFCs
998 and 1054. [STANDARDS-TRACK]

1111   Postel   Aug 89   Request for Comments on Request for
                                Comments - Instructions to
                                RFC Authors

This RFC specifies a standard for the Internet community. Authors of
RFCs are expected to adopt and implement this standard.

1110   McKenzie   Aug 89   A Problem with the TCP Big Window
                                Option

This memo comments on the TCP Big Window option described in RFC 1106.

1109   Cerf   Aug 89   Report of the Second Ad Hoc
                                 Network Management Review Group

This RFC reports an official Internet Activities Board (IAB) policy
position on the treatment of Network Management in the Internet. This
RFC presents the results and recommendations of the second Ad Hoc
Network Management Review on June 12, 1989. The results of the first
such meeting were reported in RFC 1052.

1108   Kent   Nov 91   U.S. Department of Defense Security
                                 Options for the Internet Protocol

This RFC specifies the U.S. Department of Defense Basic Security
Option and the top-level description of the Extended Security Option
for use with the Internet Protocol. This RFC obsoletes RFC 1038,
"Revised IP Security Option", dated January 1988. [STANDARDS-TRACK]

1107   Sollins   Jul 89   A Plan for Internet Directory Services

This memo proposes a program to develop a directory service for the
Internet. It reports the results of a meeting held in February 1989,
which was convened to review requirements and options for such a
service. This proposal is offered for comment, and does not represent a
committed research activity of the Internet community.

1106   Fox   Jun 89   TCP Big Window and Nak Options

This memo discusses two extensions to the TCP protocol to provide a more
efficient operation over a network with a high bandwidth*delay product.
The extensions described in this document have been implemented and
shown to work using resources at NASA. This memo describes an
Experimental Protocol, these extensions are not proposed as an Internet
standard, but as a starting point for further research.

1105   Lougheed   Jun 89   A Border Gateway Protocol (BGP)

This RFC outlines a specific approach for the exchange of network
reachability information between Autonomous Systems. Updated by RFCs
1163 and 1164. [STANDARDS-TRACK]

1104   Braun   Jun 89   Models of Policy Based Routing

The purpose of this RFC is to outline a variety of models for policy
based routing. The relative benefits of the different approaches are
reviewed. Discussions and comments are explicitly encouraged to move
toward the best policy based routing model that scales well within a
large internetworking environment.

1103   Katz   Jun 89   A Proposed Standard for the Transmission
                                of IP Datagrams over FDDI Networks

This RFC specifies a method of encapsulating the Internet Protocol (IP)
datagrams and Address Resolution Protocol (ARP) requests and replies on
Fiber Distributed Data Interface (FDDI) Networks. [STANDARDS-TRACK]

1102   Clark   May 89   Policy Routing in Internet Protocols

The purpose of this RFC is to focus discussion on particular problems in
the Internet and possible methods of solution. No proposed solutions in
this document are intended as standards for the Internet.

1101   Mockapetris   Apr 89   DNS Encoding of Network Names and
                                Other Types

This RFC proposes two extensions to the Domain Name System:

   - A specific method for entering and retrieving RRs which map
     between network names and numbers.

   - Ideas for a general method for describing mappings between
     arbitrary identifiers and numbers.

The method for mapping between network names and addresses is a proposed
standard, the ideas for a general method are experimental.

1100   IAB   Apr 89   IAB Official Protocol Standards

This memo describes the state of standardization of protocols used in
the Internet as determined by the Internet Activities Board (IAB). An
overview of the standards procedures is presented first, followed by
discussions of the standardization process and the RFC document series,
then the explanation of the terms is presented, the lists of protocols
in each stage of standardization follows, and finally pointers to
references and contacts for further information.

This memo is issued quarterly, please be sure the copy you are reading
is dated within the last three months. Current copies may be obtained
from the Network Information Center or from the Internet Assigned
Numbers Authority (see the contact information at the end of this memo).
Do not use this memo after 31-July-89.

Security Considerations

    Security issues are not discussed in this memo.

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