

参考文献

所有的RFC文件都可以通过电子邮件或者用匿名FTP通过Internet免费获得,在附录B中对此作了说明。

通过URL(统一资源定位符,附录B),作者随时可以找到本参考书目中文章和报告的电子副本。

Almquist, P. 1992. "Type of Service in the Internet Protocol Suite," RFC 1349, 28 pages (July). Almquist, P., and Kastenholz, F. J. 1994. "Towards Requirements for IP Routers," RFC 1716, 186 pages (Nov.).

此RFC是取代RFC 1009 [Braden and Postel 1987]的中间步骤。

Auerbach, K. 1994. "Max IP Packet Length and MTU," Message-ID <karl.3.000A4DD7 @cavebear.com>, Usenet, comp.protocols.tcp-ip Newsgroup (July).

Boggs, D. R. 1982. "Internet Broadcasting," Xerox PARC CSL-83-3, Stanford University, Palo Alto, Calif. (Jan.).

Braden, R. T., ed. 1989a. "Requirements for Internet Hosts—Communication Layers," RFC 1122, 116 pages (Oct.).

Host Requirements RFC的前半部分。这部分包括链路层、IP、TCP和UDP。

Braden, R. T., ed. 1989b. "Requirements for Internet Hosts—Application and Support," RFC 1123, 98 pages (Oct.).

Host Requirements RFC的后半部分。这部分包括 Telnet、FTP、TFTP、SMTP和 DNS。

Braden, R. T. 1989c. "Perspective on the Host Requirements RFCs," RFC 1127, 20 pages (Oct.).

对开发制定Host Requirements RFC的IETF工作组的讨论和结论的一个非正式总结。

Braden, R. T. 1992. "TIME-WAIT Assassination Hazards in TCP," RFC 1337, 11 pages (May). 说明在TIME_WAIT状态时接收一个RST是如何能导致问题的。

Braden, R. T. 1993. "TCP Extensions for High Performance: An Update," Internet Draft, 10 pages (June).

这是一个对RFC 1323 [Jacobson, Braden, and Borman 1992]的更新文件。

Braden, R. T. 1994. "T/TCP—TCP Extensions for Transactions, Functional Specification," RFC 1644, 38 pages (July).



Braden, R. T., Borman, D. A., and Partridge, C. 1988. "Computing the Internet Checksum," RFC 1071, 24 pages (Sept.).

提供方法和算法来计算IP、ICMP、IGMP、UDP和TCP中使用的检验和。

Braden, R. T., and Postel, J. B. 1987. "Requirements for Internet Gateways," RFC 1009, 55 pages (June).

等同于路由器的 Host Requirements RFC。此RFC被RFC 1716 [Almquist and Kastenholz 1994]所取代。

Brakmo, L. S., O' Malley, S. W., and Peterson, L. L. 1994. "TCP Vegas: New Techniques for Congestion Detection and Avoidance," *Computer Communication Review*, vol. 24, no. 4, pp. 24 - 35 (Oct.).

说明了一些对4.3BSD Reno TCP实现的改进,这些改进用来提高吞吐量和减少重传。

ftp://ftp.cs.arizona.edu/xkernel/Papers/vegas.ps

Carlson, J. 1993. "Re: Bug in Many Versions of TCP," Message-ID <1993Jul12.130854.26176 @xylogics.com>, Usenet, comp.protocols.tcp-ip Newsgroup (July).

Casner, S., Frequently Asked Questions (FAQ) on the Multicast Backbone (MBONE), 1993.

ftp://ftp.isi.edu/mbone/faq.txt

Cheswick, W. R., and Bellovin, S. M. 1994. Firewalls and Internet Security: Repelling the Wily Hacker. Addison-Wesley, Reading, Mass.

说明了如何去建立和管理一个防火墙网关,还涉及了安全问题。

Clark, D. D. 1982. "Modularity and Efficiency in Protocol Implementation," RFC 817, 26 pages (July).

Comer, D. E., and Lin, J. C. 1994. "TCP Buffering and Performance Over an ATM Network," Purdue Technical Report CSD-TR 94-026, Purdue University, West Lafayette, In. (Mar.).

Comer, D. E., and Stevens, D. L. 1993. *Internetworking with TCP/IP: Vol. III: Client—Server Programming and Applications, BSD Socket Version*. Prentice-Hall, Englewood Cliffs, N. J.

Croft, W., and Gilmore, J. 1985. "Bootstrap Protocol (BOOTP)," RFC 951, 12 pages (Sept.).

Crowcroft, J., Wakeman, I., Wang, Z., and Sirovica, D. 1992. "Is Layering Harmful?," *IEEE Network*, vol. 6, no. 1, pp. 20 - 24 (Jan.).

这篇文章中遗漏的7个图放在下一期中: vol. 6, no. 2 (March)。

Dalton, C., Watson, G., Banks, D., Calamvokis, C., Edwards, A., and Lumley, J. 1993. "Afterburner," *IEEE Network*, vol. 7, no. 4, pp. 36 - 43 (July).

说明了如何通过减少数据复制的执行次数来提高 TCP的速度,并介绍了一个支持 这种设计的专用接口卡。

Deering, S. E. 1989. "Host Extensions for IP Multicasting," RFC 1112, 17 pages (Aug.).



IP多播和IGMP的规范。

Deering, S. E., ed. 1991a. "ICMP Router Discovery Messages," RFC 1256, 19 pages (Sept.).

Deering, S. E. 1991b. "Multicast Routing in a Datagram Internetwork," STAN-CS-92-1415, Stanford University, Palo Alto, Calif. (Dec.).

ftp://gregorio.stanford.edu/vmtp-ip/sdthesis.part1.ps.Z

Deering, S. E., and Cheriton, D. P. 1990. "Multicast Routing in Datagram Internetworks and Extended LANs," *ACM Transactions on Computer Systems*, vol. 8, no. 2, pp. 85 - 110 (May).

对扩展支持多播的公共选路技术的建议。

Deering, S., Estrin, D., Farinacci, D., Jacobson, V., Liu, C., and Wei, L. 1994. "An Architecture for Wide-Area Multicast Routing," *Computer Communication Review*, vol. 24, no. 4, pp. 126 - 135 (Oct.).

Droms, R. 1993. "Dynamic Host Configuration Protocol," RFC 1541, 39 pages (Oct.).

Finlayson, R., Mann, T., Mogul, J. C., and Theimer, M. 1984. "A Reverse Address Resolution Protocol," RFC 903, 4 pages (June).

Floyd, S. 1994. Private Communication.

Forgie, J. 1979. "ST—A Proposed Internet Stream Protocol," IEN 119, MIT Lincoln Laboratory (Sept.).

Fuller, V., Li, T., Yu, J. Y., and Varadhan, K. 1993. "Classless Inter-Domain Routing (CIDR): An Address Assignment and Aggregation Strategy," RFC 1519, 24 pages (Sept.).

Hornig, C. 1984. "Standard for the Transmission of IP Datagrams over Ethernet Networks," RFC 894, 3 pages (Apr.).

Hutchinson, N. C., and Peterson, L. L. 1991. "The x-Kernel: An Architecture for Implementing Network Protocols," *IEEE Transactions on Software Engineering*, vol. 17, no. 1, pp. 64 - 76 (Jan.).

ftp://ftp.cs.arizona.edu/xkernel/Papers/architecture.ps

Itano, W. M., and Ramsey, N. F. 1993. "Accurate Measurement of Time," *Scientific American*, vol. 269, p. 56 (July).

概述了精确计时的历史的和当前的方法。还简短讨论了国际时间尺度,包括国际原子时间(TAI)和协调全球时间(UTC)。

Jacobson, V. 1988a. "Some Interim Notes on the BSD Network Speedup," Message-ID <8807200426.AA01221@helios.ee.lbl.gov>, Usenet, comp.protocols.tcp-ip Netwsgroup (July).

Jacobson, V. 1988b. "Congestion Avoidance and Control," *Computer Communication Review*, vol. 18, no. 4, pp. 314 - 329 (Aug.).

一个说明TCP慢启动和拥塞避免算法的典型文章。

ftp://ftp.ee.lbl.gov/congavoid.ps.Z

Jacobson, V. 1990a. "Compressing TCP/IP Headers for Low-Speed Serial Links," RFC 1144, 43 pages (Feb.).



说明CSLIP,一个压缩了TCP和IP首部的SLIP版本。

Jacobson, V. 1990b. "4BSD TCP Header Prediction," *Computer Communication Review*, vol. 20, no. 2, pp. 13 - 15 (Apr.).

Jacobson, V. 1990c. "Modified TCP Congestion Avoidance Algorithm," April 30, 1990, end2end-interest mailing list (Apr.).

说明快速重传和快速恢复算法。

ftp://ftp.isi.edu/end2end/end2end-interest-1990.mail

Jacobson, V. 1990d. "Berkeley TCP Evolution from 4.3-Tahoe to 4.3-Reno," *Proceedings of the Eighteenth Internet Engineering Task Force*, p. 365 (Sept.), University of British Columbia, Vancouver, B. C.

Jacobson, V. 1993. "Some Design Issues for High-Speed Networks," *Networkshop* '93 (Nov.), Melbourne, Australia.

讨论了21项开销。

ftp://ftp.ee.lbl.gov/papers/vj-nws93-1.ps.Z

Jacobson, V., and Braden, R. T. 1988. "TCP Extensions for Long-Delay Paths," RFC 1072, 16 pages (Oct.).

说明TCP的可选择确认选项和反射选项。在新近的 RFC 1323中,前者被删除了,而后者被时间戳所代替。

Jacobson, V., Braden, R. T., and Borman, D. A. 1992. "TCP Extensions for High Performance," RFC 1323, 37 pages (May).

说明窗口刻度选项、时间戳选项和 PAWS算法,以及需要这些修改的原因。 [Braden 1993]更新了此RFC。

Jain, R., and Routhier, S. A. 1986. "Packet Trains: Measurements and a New Model for Computer Network Traffic," *IEEE Journal on Selected Areas in Communications*, vol. 4, pp. 1162 - 1167.

Karels, M. J., and McKusick, M. K. 1986. "Network Performance and Management with 4.3BSD and IP/TCP," *Proceedings of the 1986 Summer USENIX Conference*, pp. 182 - 188, Atlanta, Ga.

说明从4.2BSD到4.3BSD中关于TCP/IP的变动。

Karn, P., and Partridge, C. 1987. "Improving Round-Trip Time Estimates in Reliable Transport Protocols," *Computer Communication Review*, vol. 17, no. 5, pp. 2 -7 (Aug.).

处理重传的报文段的重传超时Karn算法的细节。

ftp://sics.se/users/craig/karn-partridge.ps

Kay, J., and Pasquale, J. 1993. "The Importance of Non-Data Touching Processing Overheads in TCP/IP," *Computer Communication Review*, vol. 23, no. 4, pp. 259 - 268 (Sept.).

Kent, C. A., and Mogul, J. C. 1987. "Fragmentation Considered Harmful," Computer



Communication Review, vol. 17, no. 5, pp. 390 - 401 (Aug.).

Kernighan, B. W., and Plauger, P. J. 1976. Software Tools. Addison-Wesley, Reading, Mass.

Krol, E. 1994. The Whole Internet, Second Edition. O'Reilly & Associates, Sebastopol, Calif.

对Internet、公共Internet应用和Internet上的各种可用资源的一个介绍。

Krol, E., and Hoffman, E. 1993. "FYI on 'What is the Internet?', "RFC 1462, 11 pages (May).

Lanciani, D. 1993. "Re: Bug in Many Versions of TCP," Message-ID <1993Jul10.015938.15951 @burrhus.harvard.edu>, Usenet, comp.protocols.tcp-ip Newsgroup (July).

Leffler, S. J., McKusick, M. K., Karels, M. J., and Quarterman, J. S. 1989. *The Design and Implementation of the 4.3BSD UNIX Operating System*. Addison-Wesley, Reading, Mass.

一本完全讲解4.3BSD Unix系统的书。这本书说明的是4.3BSD的Tahoe版。

Lynch, D. C. 1993. "Historical Perspective," *in Internet System Handbook*, eds. D. C. Lynch and M. T. Rose, pp. 3-14. Addison-Wesley, Reading, Mass.

对Internet和它的前身ARPANET的历史的概述。

Mallory, T., and Kullberg, A. 1990. "Incremental Updating of the Internet Checksum," RFC 1141, 2 pages (Jan.).

此RFC被RFC 1624 [Rijsinghani 1994]更新。

Mano, M. M. 1993. *Computer System Architecture, Third Edition*. Prentice-Hall, Englewood Cliffs, N. J.

McCanne, S., and Jacobson, V. 1993. "The BSD Packet Filter: A New Architecture for User-Level Packet Capture," *Proceedings of the 1993 Winter USENIX Conference*, pp. 259 - 269, San Diego, Calif.

对BSD分组过滤器(BPF)做了详细的说明并同Sun公司的网络接口分接头(NIT)进行了比较。

ftp://ftp.ee.lbl.gov/papers/bpf-usenix93.ps.Z

McCloghrie, K., and Farinacci, D. 1994a. "Internet Group Management Protocol MIB," Internet Draft, 12 pages (Jul.).

McCloghrie, K., and Farinacci, D. 1994b. "IP Multicast Routing MIB," Internet Draft, 15 pages (Jul.).

McCloghrie, K., and Rose, M. T. 1991. "Management Information Base for Network Management of TCP/IP-based Internets: MIB-II," RFC 1213 (Mar.).

McGregor, G. 1992. "PPP Internet Protocol Control Protocol (IPCP)," RFC 1332, 12 pages (May).

McKenney, P. E., and Dove, K. F. 1992. "Efficient Demultiplexing of Incoming TCP Packets," *Computer Communication Review*, vol. 22, no. 4, pp. 269 - 279 (Oct.).

Mogul, J. C. 1991. "Network Locality at the Scale of Processes," Computer Communication



Review, vol. 21, no. 4, pp. 273 - 284 (Sept.).

Mogul, J. C. 1993. "IP Network Performance," in *Internet System Handbook*, eds. D. C. Lynch and M. T. Rose, pp. 575 - 675. Addison-Wesley, Reading, Mass.

包括很多Internet协议方面用来获得最佳性能的论题。

Mogul, J. C., and Deering, S. E. 1990. "Path MTU Discovery," RFC 1191, 19 pages (Apr.).

Mogul, J. C., and Postel, J. B. 1985. "Internet Standard Subnetting Procedure," RFC 950, 18 pages (Aug.).

Moy, J. 1994. "Multicast Extensions to OSPF," RFC 1584, 102 pages (Mar.).

Olivier, G. 1994. "What is the Diameter of the Internet?," Message-ID <1994Jan22.094832 @mines.u-nancy.fr>, Usenet, comp.unix.wizards Newsgroup (Jan.).

Partridge, C. 1987. "Implementing the Reliable Data Protocol (RDP)," *Proceedings of the 1987 Summer USENIX Conference*, pp. 367 - 379, Phoenix, Ariz.

Partridge, C. 1993. "Jacobson on TCP in 30 Instructions," Message-ID <1993Sep8.213239.28992 @sics.se>, Usenet, comp.protocols.tcp-ip Newsgroup (Sept.).

说明了一个由Van Jacobson开发的TCP/IP的研究实现,它把在一个RISC系统上的TCP分组接收处理减少到30条指令。

Partridge, C., and Hinden, R. 1990. "Version 2 of the Reliable Data Protocol (RDP)," RFC 1151, 4 pages (Apr.).

Partridge, C., Mendez, T., and Milliken, W. 1993. "Host Anycasting Service," RFC 1546, 9 pages (Nov.).

Partridge, C., and Pink, S. 1993. "A Faster UDP," *IEEE/ACM Transactions on Networking*, vol. 1, no. 4, pp. 429 - 440 (Aug.).

说明对Berkeley源代码实现的改进,它可以把UDP性能提高30%。

Paxson, V. 1994. Private Communication.

Perlman, R. 1992. Interconnections: Bridges and Routers. Addison-Wesley, Reading, Mass.

Piscitello, D. M., and Chapin, A. L. 1993. *Open Systems Networking: TCP/IP and OSI*. Addison-Wesley, Reading, Mass.

Plummer, D. C. 1982. "An Ethernet Address Resolution Protocol," RFC 826, 10 pages (Nov.).

Postel, J. B., ed. 1981a. "Internet Protocol," RFC 791, 45 pages (Sept.).

Postel, J. B. 1981b. "Internet Control Message Protocol," RFC 792, 21 pages (Sept.).

Postel, J. B., ed. 1981c. "Transmission Control Protocol," RFC 793, 85 pages (Sept.).

Postel, J. B. 1981d. "Service Mappings," RFC 795, 4 pages (Sept.).

Postel, J. B., and Reynolds, J. K. 1988. "Standard for the Transmission of IP Datagrams over IEEE 802 Networks," RFC 1042, 15 pages (Apr.).

Rago, S. A. 1993. UNIX System V Network Programming. Addison-Wesley, Reading, Mass.

Reynolds, J. K., and Postel, J. B. 1994. "Assigned Numbers," RFC 1700, 230 pages (Oct.).

Rijsinghani, A. 1994. "Computation of the Internet Checksum via Incremental Update," RFC



1624, 6 pages (May).

对RFC 1141 [Mallory and Kullberg 1990]的更新。

Romkey, J. L. 1988. "A Nonstandard for Transmission of IP Datagrams Over Serial Lines: SLIP," RFC 1055, 6 pages (June).

Rose, M. T. 1990. *The Open Book: A Practical Perspective on OSI*. Prentice-Hall, Englewood Cliffs, N. J.

Salus, P. H. 1994. A Quarter Century of Unix. Addison-Wesley, Reading, Mass.

Sedgewick, R. 1990. Algorithms in C. Addison-Wesley, Reading, Mass.

Simpson, W. A. 1993. "The Point-to-Point Protocol (PPP)," RFC 1548, 53 pages (Dec.).

Sklower, K. 1991. "A Tree-Based Packet Routing Table for Berkeley Unix," *Proceedings of the 1991 Winter USENIX Conference*, pp. 93 - 99, Dallas, Tex.

Stallings, W. 1987. *Handbook of Computer-Communications Standards, Volume 2*: Local Network *Standards*. Macmillan, New York.

Stallings, W. 1993. *Networking Standards: A Guide to OSI, ISDN, LAN, and MAN Standards*. Addison-Wesley, Reading, Mass.

Stevens, W. R. 1990. UNIX Network Programming. Prentice-Hall, Englewood Cliffs, N. J.

Stevens, W. R. 1992. Advanced Programming in the UNIX Environment. Addison-Wesley, Reading, Mass.

Stevens, W. R. 1994. TCP/IP Illustrated, Volume 1: The Protocols. Addison-Wesley, Reading, Mass.

本系列的第1卷,它对Internet协议作了全面的介绍。

Tanenbaum, A. S. 1989. *Computer Networks, Second Edition*. Prentice-Hall, Englewood Cliffs, N. J.

Topolcic, C. 1990. "Experimental Stream Protocol, Version 2 (SY-II)," RFC 1190, 148 pages (Oct.).

Torek, C. 1992. "Re: A Problem in Bind System Call," Message-ID <27240@dog.ee.lbl.gov>, Usenet, comp.unix.internals Newsgroup (Nov.).

Waitzman, D., Partridge, C., and Deering, S. E. 1988. "Distance Vector Multicast Routing Protocol," RFC 1075, 24 pages (Nov.).