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References are presented in order of First citation. The sections in which each reference is cited appear in parentheses following the reference. Section SFR is Suggestions for Further Reading.

[1] A. Westin, *Privacy and Freedom*. New York: Atheneum, 1967. (I-A1, SFR)

[2] A. Miller, *The Assault on Privacy*. Ann Arbor, Mich.: Univ. of Mich. Press, 1971; also New York: Signet, 1972, Paperback W4934. (I-A1, SFR)

[3] Dept. of Health, Education, and Welfare, *Records, Computers, and the Rights of citizens*. Cambridge, Mass.: M.I.T. Press, 1973. (I-A1, SFR)

[4] R. Turn and W. Ware, "Privacy and security in computer systems," I-A1 *Amer. Scientist*, vol. 63, pp. 196-203, Mar.-Apr. 1975. (I-A1)

[5] W. Ware, "Security and privacy in computer systems," in 1967 *SJCC, AFIPS Cont. Proc.*, vol. 30, pp. 287-290. (I-A1)

[6] J. Anderson, "Information security in a multi-user computer environment," in *Advances in Computers*, vol. 12. New York: Academic Press, 1973, pp. 1-35. (I A1, SFR)

[7] J. Martin, *Security, Accuracy, and Privacy in Computer Systems*. Englewood Cliffs, N.J.: Prentice-Hall, 1973. (I-A1, SFR) I

[8] R. Patrick, *Security Systems Review Manual*. Montvale, N.J.: AFIPS Press, 1974. (I-A1, SFR)

[9] G. Bender, D. Freeman, and J. Smith, "Function and design of DOS/360 and TOS/360," *IBM Syst. J.*, vol. 6, pp. 2-21, 1967. (I-A2)

[10] R. Hargraves and A. Stephenson, "Dodge considerations for an educational time-sharing system," in 1969 *SJCC, AFIPS Conf. Proc.*, vol. 34, pp. 657-664. (I-A2)

[11] R. Meyer and L. Seawright, "A virtual machine time-sharing system," *IBM Syst. J.*, vol. 9, pp. 199-218, 1970.

(I-A2, I-B3, III-A)

[12] M.I.T. Computation Center, *CTSS Programmer's Guide*, 2nd ed. Cambridge, Mass.: M.I.T. Press, 1965. (I-A2, III-A)

[13] D. Stone, "PDP-10 system concepts and capabilities," in *PDP10 Applications in Science*, vol. II. Maynard, Mass: Digital Equipment Corp., undated (ca. 1970), pp. 32-55. (I-A2)

[14] C. Weissman, "Security controls in the ADEPT-SO time-sharing system " in *1969 FJCC, AFIPS Conf. Proc.*, vol. 35, pp. 119-133. (I-A2, II-C5, III-A, III-B, SFR)

[15] D. Bobrow et al., "TENEX, a paged time sharing system for the PDP-10," *Commun. ACM*, vol. 15, pp. 135-143, Mar. 1972. (I-A2, II-C3)

[16] F. Corbato, I. Saltzer, and C. Clingen, "Multics--The first seven years" in *1972 SJCC, AFIPS Conf. Proc.*, vol. 40, pp. 571-583. (I-A2)

[17] H. Sturgis, "A postmortem for a time sharing system," Ph.D. dissertation, Univ. of Calif., Berkeley, 1973. (Also available as Xerox Palo Alto Res. Center Tech. Rep. CSL74-1.) (I-A2, II-C2, II-E, III-A, SFR)

[18] D. Ritchie and K. Thompson, "The UNIX time-sharing system," *Commun. ACM*, vol. 17, pp. 365-375, July 1974. (I-A2, II-C3)

[19] B. Lampson, "Dynamic protection structures," in *1969 FJCC, AFIPS Conf. Proc.*, vol. 35, pp. 27-38. (I-A2, II-E, III-A)

[20] R. Needham, "Protection systems and protection implementations," in *1972 FJCC, AFIPS Conf. Proc.*, vol. 41, pt. 1, pp. 571-578. (I-A2, II-B3, II-E, III-A, SFR)

[21] W. Wulf et al., "HYDRA: The kernel of a multiprocessor operating system," *Commun. ACM*, vol. 17, pp. 337-345, June 1974. (I-A2, II-B3, III-A)

[22] R. Conway, W. Maxwell and H. Morgan, "On the implementation of security measures in information systems," *Commun. ACM*, vol. 15, pp. 211-220, Apr. 1972. (I-A2)

[23] I. Reed, "The application of information theory to privacy in data banks," Rand Corp., Tech. Rep.

R-1282-NSF, 1973. (I-A2)

[24] D. Hsiao, D. Kerr, and F. Stahl, "Research on data security systems," in *1974 NCC, AFIPS Conf. Proc.*, vol. 43, pp. 994-996. (I-A2)

[25] L. Hoffman and W. Miller, "Getting a personal dossier from a statistical data bank," *Datamation*, vol. 16, pp. 74-75, May 1970. (I-A2)

[26] J. Saltzer, "Protection and the control of information sharing in Multics," *Commun. ACM*, vol. 17, pp. 388-402, July 1974. (I-A3, I-B4, III-A, SFR)

[27] P. Baran, "Security, secrecy, and tamper-free considerations," *On Distributed Communications*, no. 9, Rand Corp. Tech. Rep. RM-3765-PR, 1964. (I-A3, III-B)

[28] G. Popek, "A principle of kernel design," in *1974 NCC, AFIPS Conf. Proc.*, vol. 43, pp. 977-978. (I-A3)

[29] D. Hollingsworth, "Enhancing computer system security," Rand Corp. Paper P-S064, 1973. (I-A3)

[30] B. Lampson, "Protection," in *Proc. 5th Princeton Symp. Information Science and Systems* (Mar. 1971), pp. 437-443. (Reprinted in *ACM Operating Syst. Rev.*, vol. 8, pp. 18-24, Jan. 1974.) (I-B1, II-B2, II-E, SFR)

[31] E. Codd et al., "Multiprogramming Stretch: Feasibility considerations," *Commun. ACM*, vol. 2, pp. 13-17, Nov. 1959. (I-B3)

[32] W. Lonergan and P. King, "Design of the B5000 system," *Datamation*, vol. 7, pp. 28-32, May 1961. (I-B3, I-B5)

[33] G. Popek and R. Goldberg, "Formal requirements for virtualizable third generation architectures," *Commun. ACM*, vol. 17, pp. 412-421, July 1974. (I-B3)

[34] R. Goldberg, "Architecture of virtual machines," in *1973 NCC, AFIPS Conf. Proc.*, vol. 42, pp. 309-318. (I-B3)

[35] G. Purdy, "A high security log-in procedure," *Commun. ACM*, vol. 17, pp. 442-445, Aug. 1974. (I-B4)

[36] A. Evans, W. Kantrowitz and E. Weiss, "A user authentication scheme not requiring secrecy in the computer," *Commun. ACM*, vol. 17, pp. 437-442, Aug. 1974. (I-B4)

- [37] M. Wilkes, *Time-Sharing Computer Systems*, 2nd ed. New York: American-Elsevier, 1972. (I-B4, I-B5, II-A)
- [38] J. Smith, W. Notz, and P. Osseck, "An experimental application of cryptography to a remotely accessed data system," in *Proc. ACM 25th Nat. Conf.*, pp. 282-298, 1972. (I-B4, III-B, SFR)
- [39] H. Feistel, "Cryptographic coding for data bank privacy," IBM Corp. Res. Rep. RC 2827, Mar. 1970. (I-B4, III-B, SFR)
- [40] D. Branstad, "Security aspects of computer networks," in *AIAA Computer Network Systems Conf.* (Apr. 1973), Paper 73-427. (I-B4, I-B5, III-B, SFR)
- [41] J. Dennis and E. Van Horn, "Programming semantics for multiprogrammed computations," *Commun. ACM*, vol. 9, pp. 143-155, Mar. 1966. (I-B5, II-B1, II-E)
- [42] J. Dennis, "Segmentation and the design of multiprogrammed computer systems," *J. ACM*, vol. 12, pp. 589-602, Oct. 1965. (I-B5, II-A)
- [43] R. Daley and J. Dennis, "Virtual memory, processes, and sharing in Multics," *Commun. ACM*, vol. 11, pp. 306-312, May 1968. (I-B5)
- [44] R. Watson, *Timesharing System Design Concepts*. New York: McGraw-Hill, 1970. (II-A)
- [45] R. Fabry, "Capabilitybased addressing," *Commun. ACM*, vol. 17, pp. 403-412, July 1974. (II-A, SFR)
- [46] E. Organick, *The Multics System: An Examination of its Structure*. Cambridge, Mass.: M.I.T. Press, 1971. (II-A)
- [47] ---, *Computer System Organization. The B5700/B6700 Series*. New York: Academic Press, 1973. (II-A, II-B3)
- [48] W. Ackerman and W. Plummer, "An implementation of a multiprocessing computer system," in *Proc. ACM Symp. Operating System Principles* (Oct. 1967), Paper D-3. (II-B1)
- [49] R. Fabry, "Preliminary description of a supervisor for a machine oriented around capabilities," *Inst. Comput. Res. Quart. Rep.*, vol. 18, sec. IB, Univ. of Chicago, Aug. 1968. (II-B1)
- [50] J. Iliffe and J. Jodeit, "A dynamic storage allocation scheme," *Comput. J.*, vol. 5, pp. 200-209, Oct. 1962.

(II-B1)

- [51] E. A. Feustel, "On the advantages of tagged architecture," *IEEE Trans. Comput.*, vol. C-22, pp. 644-656, July 1973. (II-B1)
- [52] L. Robinson *et al.*, "On attaining reliable software for a secure operating system," in *Int. Conf. Reliable Software* (Apr. 1975), pp. 267-284. (II-B3, III-B)
- [53] D. England, "Capability concept mechanism and structure in system 2s0," in *IRIA Int. Workshop Protection in Operating Systems* (Aug. 1974), pp. 63-82. (II-B3, III-A)
- [54] D. Redell, "Naming and protection in extendible operating systems," Ph.D. dissertation, Univ. of Calif., Berkeley, 1974. (Available as M.I.T. Proj. MAC Tech. Rep. TR-140.) (II-B3, III-A, SFR)
- [55] A. Bensoussan, C. Clingen, and R. Daley, "The Multics virtual memory: Concepts and design," *Commun. ACM*, vol. 15, pp. 308-318, May 1972. (II-B3, II-C3)
- [56] B. W. Lampson, W. W. Lichtenberger, and M. W. Pirtle, "A user machine in a time-sharing system," *Proc. IEEE*, vol. 54, pp. 1766-1774, Dec. 1966. (II-C3)
- [57] H. Bingham, "Access controls in Burroughs large systems," *Privacy and Security in Computer Systems*, Nat. Bur. Stand. Special Pub. 404, pp. 42-45, Sept. 1974. (II-C3)
- [58] R. Daley and P. Neumann, "A general-purpose file system for secondary storage," in *1965 FJCC, AFIPS Conf. Proc.*, vol. 27, pt. I, pp. 213-229. (II-C4)
- [59] L. Rotenberg, "Making computers keep secrets," Ph.D. dissertation, M.I.T., Cambridge, Mass., 1973. (Also available as M.I.T. Proj. MAC Tech. Rep. TR-115.) (II-C4, II-C5, II-E, III-A, III-B, SFR)
- [60] K Walters *et al.*, "Structured specification of a security kernel," in *Int. Conf. Reliable Software*, Los Angeles, Calif., pp. 285-293, Apr. 1975. (II-C5)
- [61] B. Lampson, "A note on the confinement problem," *Commun. ACM*, vol. 16, pp. 613-615, Oct. 1973. (II-C5)
- [62] D. Bell and L. LaPadula, "Secure computer systems," Air Force Elec. Syst. Div. Rep. ESD-TR-73-278, vols. 1, 11, and III, Nov. 1973. (II-C5, III-B)

- [63] M. Schroeder and J. Saltzer, "A hardware architecture for implementing protection rings," *Commun. ACM*, vol. 15, pp. 157-170, Mar. 1972. (II-C5, III-A, SFR)
- [64] J. Fenton, "Memoryless subsystems," *Comput. J.*, vol. 17, pp. 143-147, May 1974. (II-C5)
- [65] O. Dahl and C. Hoare, "Hierarchical program structures," in *Structured Programming*. New York: Academic Press, 1972, pp. 175-220. (II-E)
- [66] D. Branstad, "Privacy and protection in operating systems," *Computer*, vol. 6, pp. 43-46, Jan. 1973. (II-E)
- [67] P. Brinch-Hansen, "The nucleus of a multiprogramming system," *Commun. ACM*, vol. 13, pp. 238-250, Apr. 1970. (II-E)
- [68] J. LeClerc, "Memory structures for interactive computers," Ph.D. dissertation, Univ. of Calif., Berkeley, May 1966. (II-E)
- [69] D. Evans and J. LeClerc, "Address mapping and the control of access in an interactive computer," in *1967 SJCC, AFIPS Conf. Proc.*, vol. 30, pp. 23-30. (II-E)
- [70] M. Schroeder, "Cooperation of mutually suspicious subsystems in a computer utility," Ph.D. dissertation, M.I.T., Cambridge, Mass., 1972. (Also available as M.I.T. Proj. MAC Tech. Rep. TR-104.) (II-E, III-A, SFR)
- [71] A. Jones, "Protection in programmed systems," Ph.D. dissertation, Carnegie-Mellon Univ., Pittsburgh, Pa., 1973. (II-E, SFR)
- [72] J. Morris, "Protection in programming languages," *Commun. ACM*, vol. 16, pp. 15-21, Jan. 1973. (II-E, SFR)
- [73] G. Amdahl, G. Blaauw, and F. Brooks, "Architecture of the IBM System/360," *IBM J. Res Develop.*, vol 8, pp. 87-101, Apr. 1964. (III-A)
- [74] IBM Corp., "System 370/Principles of operation," IBM Corp. Syst. Ref. Lib. GA22-7000-3, 1973. (III-A)
- [75] R. Bisbey, II, and G. Popek, "Encapsulation: An approach to operating system security," in *Proc. ACM 1974 Annul Conf.*, pp. 666-675. (III-A)
- [76] Dept. of Defense, *Manual of Techniques and Procedures for Implementing, Deactivating, Testing, and*

*Evaluatiing Secure Resource-Sharing ADP Systems*, DOD5200.28-M, Aug. 1972. (III-A)

[77] R. Graham, "Protection in an information processing utility," *Commum ACM*, vol. 11, pp. 36s-369, May 1968. (III-A)

[78] S. Motobayashi, T. Masuda, and N. Takahashi, "The Hitac 5020 time-sharing system," in *Proc. ACM 24th Nat. Conf.*, pp. 419-429, 1969. (III-A)

[79] M. Spier, T. Hastings, and D. Cutler, "An experimental implementation of the kernel/domain architecture," *ACM Operating Syst. Rev.*, vol. 7, pp 8-21, Oct. 1973. (III-A)

[80] M.I.T. Proj. MAC, "Computer systems research," in *Project MAC Progress Reporr XI: July 1973 to June 1974*, pp. 155-183. (III-B)

[81] E. Burke, "Synthesis of a software security system," in *Proc. ACM 1974 Annu. Conf.*, pp. 648-650. (III-B)

[82] W. Schiller, "Design of a security kernel for the PDP-11/45," Air Force Elec. Syst. Div. Rep. ESD-TR-73-294, Dec. 1973. (III-B, SFR)

[83] L. Molho, "Hardware aspects of secure computing," in *1970 SJCC, AFIPS Conf. Proc.*, vol. 36, pp. 135-141. (III-B, SFR) 199

[84] R. Fabry, "Dynamic verification of operating system decisions," *Commun. ACM*, vol. 16, pp. 659-668, Nov. 1973. (III-B, SFR)

[85] C. Shannon, "Communication theory of secrecy systems," *Bell Syst. Tech. J.*, vol. 28, pp. 656-715, Oct. 1949. (III-B)

[86] S. Lipner, Chm., "A panel session--Security kernels," in *1974 NCC, AFIPS Conf. Proc.*, vol. 43, pp. 973-980. (III-B, SFR)

[87] R. Mathis, Chm., "A panel session--Research in data security--Policies and projects," in *1974 NCC, AFIPS Conf. Proc.*, vol. 43 pp. 993-999. (III-B, SFR)

[88] Institut de Recherche d'Informatique et d'Automatique (IRIA), *Int. Workshop Protectlon in Operating Systems*. Rocquencourt, France: IRIA, Aug. 1974. (III-B, SFR)



- [89] J. Saltzer, "Ongoing research and development on information protection," *ACM Operating Syst. Rev.*, vol. 8, pp. 8-24, July 1974. (III-B, SFR)
- [90] L. Hoffman Ed., *Security and Privacy in Computer Systems*. Los Angeles, Calif.: Melville Pub. Co., 1973. (SFR)
- [91] C. W. Beardsley, "Is your computer insecure?" *IEEE Spectrum*, vol. 9, pp. 67-78, Jan. 1972. (SFR)
- [92] D. Parker, S. Nycom, and S. Oura, "Computer abuse," Stanford Res. Inst. Proj. ISU 2501, Nov. 1973. (SFR)
- [93] D. Kahn, *The Codebreakers*. New York: Macmillan, 1967. (SFR)
- [94] G. Mellen, "Cryptology, computers, and common sense," in *1973 NCC, AFIPS Conf. Proc.*, vol. 42, pp. 569-579. (SFR)
- [95] J. Anderson, "Computer security technology planning study," Air Force Elec. Syst. Div. Rep. ESD-TR-73-51, Oct. 1972. (SFR)
- [96] W. Ware *et al.*, "Security controls for computer systems," Rand Corp. Tech. Rep. R-609, 1970. (Classified confidential.) (SFR)
- [97] R. Anderson and E. Fagerlund, "Privacy and the computer: An annotated bibliography," *ACM Comput. Rev.*, vol. 13, pp. 551-559, Nov. 1972. (SFR)
- [98] J. Bergart, M. Denicoff, and D. Hsiao, "An annotated and cross-referenced bibliography on computer security and access control in computer systems," Ohio State Univ., Computer and Information Science Res. Center Rep. OSU-CISRC-T072-12, 1972. (SFR)
- [99] S. Reed and M. Gray, "Controlled accessibility bibliography," Nat. Bur. Stand. Tech. Note 780, June 1973. (SFR)
- [100] J. Scherf, "Computer and data base security: A comprehensive annotated bibliography," M.I.T. Proj. MAC Tech. Rep. TR-122, Jan. 1974. (SFR)