

A MULTICS BIBLIOGRAPHY

A. Manuals which are Generally Available.

1. Multics Programmers' Manual. An updateable Reference manual giving calling sequences and reference information for all user callable subroutines and commands. Includes an introduction to the Multics programming environment and a guide to typical ways of using the system.
2. The Multics Limited Service System. A reference manual containing a tutorial guide to Multics console usage and writeups for the so-called "Limited Service" Commands, a set of commands designed for extra-economical use of the system. This manual consists primarily of selected sections of the Multics Programmers' Manual. (In preparation; available 10/15/70) - 50 pages.
3. A Guide to Multics for Subsystem Writers, by E.I. Organick. A hard cover book describing in some detail how Multics works. The description is from the point of view of a programmer developing a large program or subsystem, who wishes to gain the extra insight to help him intelligently choose among available alternatives of his implementation. (In preparation; M.I.T. Press edition available in Summer, 1970; early drafts of chapters 1-6 are available for reference in documentation rooms at present.) - 600 pages.
4. A User's Guide to the Multics FORTRAN Implementation, by R. A. Freiburghouse. A document which provides the prospective Multics FORTRAN user with sufficient information to enable him to create and execute FORTRAN programs on Multics. It contains a complete definition of the Multics FORTRAN language as well as a

description of the FORTRAN command and error messages. It also describes how to communicate with non-FORTRAN programs, and discusses some of the fundamental characteristics of Multics which affect the FORTRAN user. - 68 pages.

5. Multics PL/I Language Specification. A reference manual which specifies precisely the subset of the PL/I language used on Multics. - 174 pages.
 6. User's Guide to the Multics PL/I Implementation, R. A. Freiburghouse et al. Provides detailed information about how the PL/I language is embedded in the Multics programming environment. - 53 pages.
 7. EPLBSA Programmer's Reference Handbook, by D. J. Riesenberg. A manual describing the only currently available assembly (machine) language for the GE-645 computer. (Needed only by programmers with some special reason to use 645 machine language.) - 85 pages.
 8. GE-645 Processor Manual. A hardware description, including opcodes, addressing modifiers, etc. Of interest only to dedicated machine language programmers. (In preparation: available June, 1970.) - 250 pages (est.)
- B. Manuals which may be examined in the Project MAC or Information Processing Center Document Rooms.
1. Multics System Programmers' Manual. The complete reference manual describing how the system works inside. This document contains many sections which are inconsistent, inaccurate, or obsolete; it is in need of much upgrading. However, its overview sections are generally accurate and very valuable if insight into the internal organization is desired. - 3,500 pages.

2. System Programmers Supplement to the Multics Programmers' Manual. This updateable reference manual, in the same format as the Multics Programmers' Manual, provides calling sequences of every system module. (In preparation; available June, 1970.) - 350 pages.
3. Multics Operators Handbook. A reference guide for the machine room operator. - 100 pages.

C. Technical Papers About Multics.

1. Corbató, F.J., and Vyssotsky, V.A., "Introduction and Overview of the Multics System", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington, D.C., 1965, pp. 185-196.
2. Glaser, E.L., et al., "System Design of a Computer for Time Sharing Application", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington D.C., 1965, pp. 197-202.
3. Vyssotsky, V.A., et al., "Structure of the Multics Supervisor", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington, D.C., 1965, pp. 203-212.
4. Daley, R.C., and Neumann, P.G., "A General-Purpose File System for Secondary Storage", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington, D.C., 1965, pp. 213-229.
5. Ossanna, J.F., et al., "Communication and Input/Output Switching in a Multiplex Computing System", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington, D.C., 1965, pp. 231-241.
6. David, E.E., Jr., and Fano, R.M., "Some Thoughts About the Social Implications of Accessible Computing", AFIPS Conf. Proc. 27 (1965 FJCC), Spartan Books, Washington, D.C., 1965, pp. 243-247.

7. Bensoussan, A., Clingen, C.T., and Daley, R.C., "The Multics Virtual Memory", ACM Second Symposium on Operating System Principles (October 20-22, 1969) Princeton University, pp. 30-42.
8. Clingen, C.T., "Program Naming Problems in a Shared Tree-Structured Hierarchy", NATO Science Committee Conference on Techniques in Software Engineering, 1, Rome, Italy (October 27-31, 1969).
9. Graham, R.M., "Protection in an Information Processing Utility", Comm. ACM, 11, 5 (May, 1968) pp. 365-369.
10. Daley, R.C., and Dennis, J.B., "Virtual Memory, Processes, and Sharing in MULTICS", Comm. ACM, 11, 5 (May, 1968) pp. 306-312.
11. Corbato, F.J., and Saltzer, J.H., "Some Considerations of Supervisor Program Design for Multiplexed Computer Systems", Proc. IFIP Conf. 1968 Invited Papers, pp. 66-72.
12. Corbato, F.J., "PL/I as a Tool for System Programming", Datamation, 15, 6 (May, 1969) pp. 68-76.
13. Corbato, F.J., "A Paging Experiment with the Multics System", In Honor of P.M. Morse, M.I.T. Press, Cambridge, Mass., 1969, pp. 217-228.
14. Saltzer, J.H., and Gintell, J.W., "The Instrumentation of Multics", ACM Second Symposium on Operating System Principles (October 20-22, 1969) Princeton University, pp. 167-174.
15. Spier, J.M., and Organick, E.I., "The Multics Inter-Process Communication Facility", ACM Second Symposium on Operating System Principles (October 20-22, 1969) Princeton University, pp. 83-91.
16. Freiburghouse, R.A., "The Multics PL/I Compiler", AFIPS Conf. Proc. 35 (1969 FJCC), AFIPS Press, 1969, pp. 187-199.
17. Grochow, J.M., "Real-Time Graphic Display of Time-Sharing System Operating Characteristics", AFIPS Conf. Proc. 35 (1969 FJCC), AFIPS Press, 1969, pp. 379-385.
18. Saltzer, J.H., and Ossanna, J.F., "Remote Terminal Character Stream Processing in Multics", AFIPS Conf. Proc. 36 (1970 SJCC) AFIPS Press, 1970, pp. 621-627.

D. M.I.T. Theses Related to Multics.

1. Saltzer, J.H., "Traffic Control in a Multiplexed Computer System", Sc.D., 1966 (MAC-TR-30).
2. Rappaport, R., "Implementing Multi-Process Primitives in a Multiplexed Computer System", S.M., 1968. (MAC-TR-55).
3. Deitel, H., "Absentee Computations in a Multiple-Access Computer System", S.M., 1968. (MAC-TR-52).
4. Greenbaum, H., "A Simulator of Multiple Interactive Users to Drive a Time-Shared Computer System", S.M., 1968. (MAC-TR-58).
5. Grochow, J., "The Graphic Display as an Aid in the Monitoring of a Time-Shared Computer System", S.M., 1968. (MAC-TR-54).
6. Ancona, R.I., "A Compiler for MAD-Based Language on Multics", S.M., 1968.
7. Clark, D., "A Reduction Analysis System for Parsing PL/I", S.M., 1968.
8. Schroeder, H.D., "Classroom Model of an Information and Computing Service", S.M., 1969.
9. Vogt, C.M., "Suspension of Processes in a Multiprocessing Computer System", February, 1970.

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