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 10/15/69) ~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 f his implementation. (In preparation: M.I.T. Press edition available in Spring, 1970; early drafts of chapters 1-6 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.
(In preparation: available 10/10/69) 60 pages.

5. Multics PL/I Language Specification. by R.A. Freiburghouse. A reference manual which specifies precisely the subset of the PL/I language used on Multics. (In preparation: available 11/15/69.) ~150 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.
(In preparation: available 10/20/69.) 33 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 Nov. 1969.) ~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. Section S, giving calling sequences of every module of the system, is up-to-date and accurate. ~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 to many test, analysis, and maintenance commands, and to privileged entry points of the supervisor. (In preparation: available Dec. 1, 1969.) 40 pages.

3. Multics Operators Handbook. A reference guide for the machine room operator. (In preparation: available 12/1/69.) 50 pages.

C. Technical Papers About Multics.

1. F.J. Corbató, V. Vyssotsky, "Introduction and Overview of the Multics System", 1965 FJCC.

2. E.L. Glaser, J.F. Couleur and G.A. Oliver, "System Design of a Computer for Time Sharing Applications", 1965 FJCC.

3. R.C. Daley, P.G. Neumann, "A General-Purpose File System for Secondary Storage", 1965 FJCC.

4. V.A. Vysotsky, F. J. Corbató and R.M. Graham, "Structure of the Multics Supervisor", 1965 FJCC.

5. J. F. Ossanna, L.E. Mikus and S.D. Dunten, "Communications Input/Output Switching in a Multiplex Computing System", 1965 FJCC.

6. E.E. David, Jr., R.M. Fano, "Some Thoughts About the Social Implications of Accessible Computing", 1965 FJCC.

7. R.M. Graham, "Protection in an Information Processing Utility", 1st ACM Symposium on Operating Systems, Gatlinburg, Tennessee, October, 1967.

8. R.C. Daley, J.B. Dennis, "Virtual Memory, Processes, and Sharing in Multics", 1st ACM Symposium on Operating Systems, Gatlinburg, Tennessee, October 1967.

9. F.J. Corbató, J. H. Saltzer, "Some Considerations of Supervisor Program Design for Multiplexed Computer Systems", 1968 IFIP Conference.

10. J.H. Saltzer, "Multics System", 1966 lectures (in Japanese).

11. F.J. Corbató, "PL/I as a Tool for System Programming", Datamation, May 1969, ps. 68-76.

In Publication:

12. A. Bensoussan, C.T. Clingen, and R.C. Daley, "The Multics Virtual Memory", 2nd ACM Symposium on Operating Systems, Princeton, N.J., October, 1969.

13. J.H. Saltzer, and J.W. Gintell, "The Instrumentation of Multics", 2nd ACM Symposium on Operating Systems, Princeton, N.J., October 1969.

14. M.J. Spier, and E.I. Organick, "The Multics Inter-Process Communication Facility", 2nd ACM Symposium on Operating Systems, Princeton, N.J., October, 1969.

15. R.A. Freiburghouse, "The Multics PL/I Compiler", 1969 FJCC

16. J.M. Grochow, "Real-Time Graphic Display of Time-Sharing System Operating Characteristics", 1969 FJCC.

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

1. J.H. Saltzer, "Traffic Control in a Multiplexed Computer System", Sc.D., 1966 (MAC-TR-30).

2. R. Rappaport, "Implementing Multi-Process Primitives in a Multiplexed Computer System", S.M., 1968.

3. H. Deitel, "Abseatee Computations in a Multple-Access Computer System", S.M., 1968.

4. H. Greenbaum, "A Simulator of Multiple Interactive Users to Drive a Time-Shared Computer System", S.M., 1968.

5. J. Grochow, "The Graphic Display as an Aid in the Monitoring of a Time-Shared Computer System", S.M., 1968.

6. E.I. Ancona, "A Compiler for MAD-Based Language on Multics", S.M., 1968.

7. D. Clark, "A Reduction Analysis System for Parsing PL/I", S.M., 1968.

8. M. Schroeder, "Classroom Model of an Information and Computing Service", S.M., 1969.

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