BIBLIOGRAPHY

MATH PUBLICATIONS

- Haggerty, M. I., Harvey, R. W., Smith, H. J., Disbrow, J. R., MATH(JOSS): Supervisor Unit, ASDD Los Gatos Laboratory, CTS Paper No. 20, April 1968.
- Harvey, R. W., Smith, H. J., Haggerty, M. I., Disbrow, J. R., MATH(JOSS): Input Output Unit, ASDD Los Gatos Laboratory CTS Paper No. 21, April 1968.
- Smith, H. J., Harvey, R. W., Haggerty, M. I., Disbrow, J. R., MATH(JOSS): Central Processing Unit, ASDD Los Gatos Laboratory CTS Paper No. 19, April 1968.

JOSS PUBLICATIONS OF CURRENT INTEREST

- Baker, C. L., JOSS: Console Design, The RAND Corporation, RM-5218-PR, February 1967.
- ----, JOSS: Introduction to a Helpful Assistant, The RAND Corporation, RM-5058-PR, July 1966.
- ----, JOSS: Rubrics, The RAND Corporation, P-3560, March 1967.
- Bryan, G. E., JOSS: Accounting and Performance Measurement, The RAND Corporation, RM-5217-PR, June 1967.
- ----, JOSS: Assembly Listing of the Supervisor, The RAND Corporation, RM-5437-PR, August 1967.
- Corporation, P-3486, November 1966; also published by the Digital Equipment Computer Users Society, DECUS Proceedings, Fall 1966.
- ----, JOSS: 20,000 Hours at the Console--A Statistical Summary, The RAND Corporation, RM-5359-PR, August 1967.
- ----, JOSS: User Scheduling and Resource Allocation, The RAND Corporation, RM-5216-PR, January 1967.
- Bryan, G. E., and E. W. Paxson, *The JOSS Notebook*, The RAND Corporation RM-5367-PR, August 1967.
- Bryan, G. E., and J. W. Smith, JOSS Language (Apercu and Precis, Pocket Precis, Poster Precis), The RAND Corporation, RM-5377-PR, August 1967.

- Gimble, E. P., JOSS: Problem Solving for Engineers, The RAND Corporation, RM-5322-PR, May 1967.
- Greenwald, I. D., JOSS: Arithmetic and Function Evaluation Routines, The RAND Corporation, RM-5028-PR, September 1966.
- ----, JOSS: Console Service Routines (The Distributor), The RAND Corporation, RM-5044-PR, September 1966.
- ----, JOSS: Disc file System, The RAND Corporation, RM-5257-PR, February 1967.
- Marks, S. L., and G. W. Armerding, *The JOSS Primer*, The RAND Corporation, RM-5220-PR, August 1967.
- Smith, J. W., JOSS: Central Processing Routines, The RAND Corporation, RM-5270-PR, August 1967.

JOSS PUBLICATIONS OF HISTORICAL INTEREST

- Baker, C. L., JOSS: Scenario of a Filmed Report, The RAND Corporation, RM-4162-PR, June 1964.
- "The JOSS System: Time-Sharing at RAND," Datamation, Vol. 10, No. 11, November 1964, pp. 32-36. (This article is based on RM-4162-PR above.)
- Shaw, J. C., JOSS: Conversations with the Johniac Open-Shop System, The RAND Corporation, P-3146, May 1965.
- ----, JOSS: A Designer's View of an Experimental On-Line Computing System, The RAND Corporation, P-2922, August 1964; also published in AFIPS Conference Proceedings (1964, FJCC), Vol. 26, Spartan Books, Baltimore, Maryland, 1964, pp. 455-464.
- ----, JOSS: Examples of the Use of an Experimental On-Line Computing Service, The RAND Corporation, P-3131, April 1965.
- ----, JOSS: Experience with an Experimental Computing Service for Users at Remote Typewriter Consoles, The RAND Corporation, P-3149, May 1965.



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