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Statistics (Ph.D., Stanford University, 1971). He joined IBM in 1964 in Endicott, New York where he worked on the development of the System/360 COBOL compilers. Subsequently, he worked in the areas of time-sharing and computer-aided design at the Los Gatos, California laboratory. Since 1971, he has been at the Cambridge Scientific Center, where he has worked in the area of computer performance measurement and prediction in addition to the line quality monitoring work described in this issue.

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Electrical technology (A.A.S., New York State Institute of Arts and Sciences, 1951). Joined IBM in 1956 in Concord, New Hampshire. After various customer engineering assignments in Concord and in Cambridge, Massachusetts, he joined the Cambridge Scientific Center in 1962 where he has worked on the development of prototypes of various electronic components, including the hardware for the line quality monitoring experiments reported in this issue.

Authors

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Joined IBM in 1968 as a terminal systems technician in Mahwah, New Jersey. He later held a variety of technical and managerial positions in networking in Mahwah and Sterling Forest, New York. Since 1975 he has been manager of Network Facilities Technology at the System Communications Division laboratory in Kingston.

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Joined the field programming group of the Service Bureau Corporation in 1969. Prior to his present position in the Raleigh, North Carolina IBM branch office, he was an Advisory Industry Development Analyst for the Health Industry. In this position, he was responsible for planning, analysis, and design of application systems, in which he used the improved programming technologies discussed in this paper. He is currently a Health Industry Specialist.

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Mathematics (B.S., Boston College, 1967). Joined IBM in 1965. Worked as a product-test programmer in the development laboratory in Kingston, New York until December 1971. Transferred to the IBM team at the McDonnell Douglas Corporation, installing VM/370 and implementing improved programming technologies. In September 1975, he became a Market Support Representative.