pends on the solution of a linear system of dimension k. The other states are then obtained by the recurrent relation

$$X_n = H(n) X_{n+1}, \quad n < N.$$

The linear system determining X_N in the general case has somewhat complicated coefficients, but is still tractable. Moreover, we have shown in Section IV how this can be managed in the particular but important case of a service process without feedback.

The generality of the models allows us to pass quite easily from the block-diagram representation of the service process to the Markovian model. This is a major advantage for designers of, for example, computer architectures.

References

- D. R. Cox, "A use of complex probabilities in the theory of stochastic process," in *Proc. Cambridge Phil. Soc.*, vol. 51, 1955, pp. 313-319.
- [2] R. A. Marie, "Algorithmes de calcul des probabilités asymptotiques pour des files d'attente $\lambda(n)/C_k/1/N$ avec rebouclage et cas parti-

culiers," Institut de Recherche en Informatique et Systemes Aleatoires, Rennes, France, Res. Rep. 125, Dec. 1979.

[3] —, "Modelisation par réseaux de files d'attente," thèse d'etat, Univ. Rennes, Rennes, France, Nov. 1978.

Raymond A. Marie received the Doctorat d'Ingénieur and the Doctorat d'Etat es-Sciences Mathématiques from the University of Rennes, Rennes, France, in 1973 and 1978, respectively.

He works at the Probability Laboratory of the Institut de Recherche en Informatique et Systèmes Aléatoires, Rennes. His research interests are in the areas of queueing theory with application to the performance of computer systems, and in the modeling of large maintenance organizations. He spent the 1981-1982 academic year as a Visiting Associate Professor at North Carolina State University, Raleigh.

Jean M. Pellaumail received the Doctorat d'Etat es-Sciences Mathématiques from the University of Rennes, Rennes, France, in 1972.

Presently he is a Full Professor at the Institut National des Sciences Appliquées, Rennes, France. His research interests are in the areas of queueing theory and stochastic integration. He is coauthor, with M. Melivier, of the book, *Stochastic Integration* (New York: Academic, 1980).

Corrigenda

Correction to "Specification and Verification of Communication Protocols in AFFIRM Using State Transition Models"

CARL A. SUNSHINE, DAVID H. THOMPSON, RODDY W. ERICKSON, SUSAN L. GERHART, AND DANIEL SCHWABE

In the above paper,¹ the following corrections should be noted.

On p. 476, second column: first reference [52] should be [54]; last reference [54] should be [4].

¹C. A. Sunshine et al., IEEE Trans. Software Eng., vol. SE-8, no. 5, pp. 460-489, Sept. 1982.

Manuscript received November 1, 1982.

C. A. Sunshine is with the Information Sciences Institute, University of Southern California, Marina del Rey, CA 90291.

D. H. Thompson was with the Information Sciences Institute, University of Southern California, Marina del Rey, CA 90291. He is now with WSAW-TV, Wausau, WI 54401.

R. W. Erickson and S. L. Gerhart were with the Information Sciences Institute, University of Southern California, Marina del Rey, CA 90291. They are now with Software Research Associates, San Francisco, CA 94104.

D. Schwabe was with the Information Sciences Institute, University of Southern California, Marina del Rey, CA 90291. He is now with the Department of Computer Science, Pontificia Universidade Catolica, Rio de Janeiro, Brazil.