

REFERENCES

- (1) BAKER, R. & HERMAN, G.T., CELIA - A Cellular Linear Iterative Array simulator, Proceedings of the Fourth Conference on Applications of Simulation (1970), 64-73.
- (2) BAKER, R. & HERMAN, G.T., Simulation of organisms using a developmental model, International Journal of Bio-Medical Computing 3 (1972), 201-215.
- (3) HERMAN, G.T., Models for cellular interaction in development without polarity of individual cells, International Journal of Systems Sciences 3 (1972), 149-175.
- (4) WOLPERT, L., The French flag problem: a contribution to the discussion on pattern development and regulation, Towards a Theoretical Biology, v.2 (Ed. C. Waddington, Pub.: Edinburgh University Press, 1968), 125-133.

"AN APPLICATION OF SIMULATION
TO DEBUGGING AND MAINTAINING
A COMPUTER NETWORK SYSTEM"*

by

M.W. Collins

and

D.G. Harder

University of California

Los Alamos Scientific Laboratory

The Computing Division of the Los Alamos Scientific Laboratory is implementing a system which will link the Laboratory's large general purpose computers (3 - CDC 6600's and 2 - CDC 7600's) to a common data base (10^{12} bits on-line), and to a network of keyboard and computer based terminals. This paper discusses the use of simulation in designing, implementing, testing and maintaining the system software for the Front End Machine which is the center of this system.