# NASA TECH BRIEF

Marshall Space Flight Center



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## Space Ultrareliable Modular Computer (SUMC) Instruction Simulator

#### The problem:

It was necessary to test space ultrareliable modular computers (SUMC) on host computers.

### The solution:

A simulator was designed to facilitate the testing of the SUMC on host computers.

### How it's done:

The requirement of operation on several host computers has led to a highly modular program structure. The simulator has been constructed as a set of quasiindependent modules, regulated by one control module. All machine-dependent functions have been resolved such that the simulation package is as machine independent as possible.

### · Notes:

- 1. This program was written in FORTRAN IV for any host computer.
- 2. Inquiries concerning this program should be directed to:

COSMIC 112 Barrow Hall University of Georgia Athens, Georgia 30601 Reference: MFS-22697

> Source: R. T. Curran and W. A. Hornfeck of Computer Sciences Corp. under contract to Marshall Space Flight Center (MFS-22697)

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