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# NASA TECH BRIEF

*NASA Pasadena Office*



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## DSIF Station Schedules

### The problem:

To devise a scheduling system for managing NASA's Deep Space Instrumentation Facilities (DSIF) Equipment Construction and Modification Planning.

### The solution:

A computer scheduling program, written specifically for the management of the system indicated. The result is an extremely versatile program with wide applicability to such tasks as employee time and task schedules, pay schedules, operations schedules, and plant and equipment procurement, construction, modification, or service. The program could be used by industrial concerns, utilities companies, and local and state governments and agencies, as well as by the military.

### How it's done:

The scheduling program mathematically calculates periods of time in units of 90 days, 60 weeks, and 60 months with read-in calendar dates and time durations of the tasks. It then represents these values with Hollerith characters and places them in an implied matrix.

The outputs are selectable in increments of 90 days, 60 weeks, or 60 months, and are sorted by station or subsystem number. A single control card, in front of each station grouping, designates the sort (station or subsystem) and the printout (90 days,

60 weeks, or 60 months). A blank card at the rear of each station grouping triggers the program to read a new control card. This eliminates the need for special coding or for coding that changes with each update.

This program takes approximately one minute to compile.

### Notes:

1. This program is written in FORTRAN V for use on the Sperry-Rand UNIVAC 1108, EXEC. 8.
2. Requests for further information may be directed to:

COSMIC  
112 Barrow Hall  
University of Georgia  
Athens, Georgia 30601  
Reference: B71-10243

### Patent status:

No patent action is contemplated by NASA.

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