Units Required

1401 Processing Unit
1402 Card Reader or 729 Tape Drive
1403 Printer (optional)

Operations Used	Code
Clear	(/)
Set Word Marks	(,)
Load	(L)
No Op	(N)
Branch	(B)
Add	(A)
Compare	(C)
Print	(2)
Stop (error)	(.)

Method of Test

The complete test block consists of the following cards:

1. Title Card (0A)
2. Two Program Chaining Routine Cards (02-03)
3. Three Title and Headings Print Routine Cards (04-06)
4. Four special program cards to set up instructions that are effective only when tests are run from tape (07-10)
5. Program Instruction Cards (11-48)
6. Detail Cards to add a 2-position A Field to a 2-position B Field (49-68)
7. Detail Cards to add a 1-position A Field to a 1-position B Field (69-77)

Four Sense Switches may be brought into play as follows:

Sense Switch B ON - permits scoping of the Add operations as often as desired.
Sense Switch C OFF - no printing for correct results.
ON - prints for correct results.
Sense Switch D ON - repeats the program for an individual card as often as desired.
Sense Switch E OFF - prints for error results.
ON - stops for error results.

The program is executed in the following manner:

Fields A, B, and Result Should Be are loaded into the print area for printing purposes. Column 2 is then tested for a blank. If no blank a 2-position A Field (columns 1-2) is added to a 2-position B Field (columns 21-22). If column 2 is blank a 1-position A Field (column 1) is added to a 1-position B Field (column 21). The result is then compared to the Result Should Be Field (columns 41-42). If the comparison is unequal, the program branches to the Error Print Routine. The position of Sense Switch E then determines whether the machine stops to permit console checking or prints the results with an "ERROR" indication.