RECOMP II USERS' PROGRAM NO. 1053

PROGRAM TITLE:

SUBROUTINE INTF(X)

PROGRAM CLASSIFICATION: Subroutine

AUTHOR:

J. N. Brooks

Baird-Atomic, Inc.

Cambridge, Massachusetts

PURPOSE:

Subroutine INTF(X) obtains the integral portion of the floating number X contained in A, R upon entering; the integral portion I(X) is contained in A,R when exiting from the

subroutine.

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B/A Subroutine 5004

INTF(X)

SUBROUTINE INTF(X)

Subroutine INTF(X) obtains the integral portion of the floating number X contained in A,R upon entering; the integral portion I(X) is contained in A,R when exiting from the subroutine.

The subroutine uses 218 storages, is relocatable, and uses both L and V loops. (The previous contents of L and V are destroyed.)

A relocatable tape with matrix is available.

CALLING SEQUENCE:

A TRA INTF
A +.1 RETURN

Location A is not restricted to either half word.

B/A PROGRAM 5004

SUBROUTINE INTF(X)

This subroutine obtains the integral portion of a floating number X in floating number form. Let us represent the number X as E X = F. 2 . The quantity E is examined.

The program examines E, creates a number Q with 1's in its first to E positions. By use of the extract command a comparison of F and Q is made which separates the integer portion of X from F.

SUBROUTINE INTF

JNB 12/7/60

```
:+0000000-0037770)
+000000-0000210
+0000001-0000001
+0000000-0000000
+0000001-0000000
+000000-000000
+000000-000000
+0000001-0000000
+0000000-0000000
+0000000-0000000
+0000001-0000000
+000000-000000
+0000000-0000000
+000000-000000
+0000001-0000000
+000000-000000
+000000-000000
+000000-000000
+000000-000000
-+0000000-0000000
```