RECOMP II USERS' PROGRAM NO. 1074

PROGRAM TITLE:	RADIAL ERROR SUBROUTINE (RELOCATABLE)
PROGRAM CLASSIFICATION:	Subroutine
AUTHOR :	G. V. Roberts Information Processing Unit Systems Evaluation Group Autonetics
PURPOSE:	Because of the many instances in which programs call for the radial error of given variates, a subroutine has been written for this purpose.

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- 1. PURPOSE
- 1.1 Because of the many instances in which programs call for the radial error of given variates, a subroutine has been written for this purpose.
- 2. METHOD
- 2.1 The radial error of two variates is the square root of the sum of the squares, or

radial error = $\sqrt{X^2 + Y^2}$

- 3. RESTRICTIONS
- 3.1 The variates in memory must be in floating point form.
- 3.2 When relocating the subroutine, the last digit must be a zero, i.e., LXXX0.0.
- L. USAGE
- 4.1 The calling sequence for this subroutine is:
 - SIR TRA () PZE L(X) + 1 PZE L(Y) PZE L(Y) + 2 PZE (N) normal return

Where L(X) is the location of one set of values, L(Y) is the location of the second set of values, L(P) is the location the radial error is to be stored, and (N) is the number of values of (X).

- L.2 To relocate this subroutine, set L7730. Enter the new location in the address portion of the second half (+0000000+00XXX00), then press "start".
- 5. CODING INFORMATION

Location Function

0000 - 0037 Subroutine 3777 - 4037 Relocator Matrix 7730 - 7754 Relocator