

SUBROUTINE OPSRCH

Description

This subroutine performs the pattern search optimization scheme.

Calling Sequence

CALL OPSRCH (A, MA, IEND, IPASS1, OA, MOA, ILOCOA, MILOC, NUMA, IZY, NCOUN, NN, IPMOVE)

Argument List

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
A	Both	R	MA	Array containing values of the parameters to be optimized. This array is updated no more than MAXN times.
MA	Input	I	1	Dimension of the A array
IEND	Both	I	1	Search completion flag for the pattern search option 1 = complete-terminate OPT3 0 = not complete
IPASS1	Input	I	1	Indicates first pass or subsequent pass through OPT 1 = first pass 0 = subsequent pass
OA	Both	R	MOA	The entire OA array. Contains the information for each of the parameters being optimized. Only when resolution moves are made (deltas halved) is the OA array output.
MOA	Input	I	1	Dimension of the OA array
ILOCOA	Input	I	MILOC	An integer array containing pointers to the beginning of the OA array for each parameter
MILOC	Input	I	1	Dimension of the OA array
NUMA	Input	I	1	Number of the parameters to be optimized (NUMA = NPARAM)
IZY	Both	I	1	Parameter from the A array, currently being optimized
NCOUN	Both	I	1	Number of trials for the pattern search option
NN	Both	I	1	Number of runs for the pattern search option
IPMOVE				Not referenced anywhere