SUBROUTINE OPARST

Description

This subroutine computes the statistics of the population which searches the feasible parameter space.

Calling Sequence

CALL OPARST (NOPT, NPT, BOUND, X, XMAX, XMIN, XMEAN, XNSTD, GNRNG, IPCNVG)

Argument List

Variable	Input/ Output	Type	Dimension	Description
NOPT	Input	I	1	Number of parameters to be optimized.
NPT	Input	I	1	Number of points in current population.
BOUND	Input	R	NOPT	Array specifies the range between lower bound and upper on each parameter.
X	Input	R	NOPT*NPT	Matrix which holds every point in current population.
XMAX	Output	R	16	Array that holds maximum values of each parameter.
XMIN	Output	R	16	Array that holds minimum values of each parameter.
XMEAN	Output	R	16	Array that holds mean values of each parameter.
XNSTD	Output	R	NOPT	Normalized standard deviation of current population in each parameter direction.
GNRNG	Output	R	1	Normalized geometric mean of parameter range.
IPCNVG	Output	I	1	Parameter convergence flag.