

SUBROUTINE OSACIN

Description

This subroutine fills the A and OA arrays with OPT3 information for the SAC-SMA operation and prints the input.

Calling Sequence

CALL OSACIN (OPID, NUMOP, OPNEW, PARM, DELTA, CHECKL, CHECKU, NOTHER, OA, MOA, P, MP, A, MA, NPARAM, IU, LEFTOA, IERO)

Argument List

| <u>Variable</u> | <u>Input/<br/>Output</u> | <u>Type</u> | <u>Dimension</u> | <u>Description</u>   |
|-----------------|--------------------------|-------------|------------------|--|
| OPID            | Input                    | R           | 2                | 8-character identifier for the operation   |
| NUMOP           | Input                    | I           | 1                | Operation identification number  |
| OPNEW           | Input                    | R           | 2                | 8-character user-supplied name for the operation (same as in MCP3 input)                             |
| PARM            | Input                    | R           | 2                | 8-character identifier for the parameter   |
| DELTA           | Input                    | R           | 1                | Specified parameter increment  |
| CHECKL          | Input                    | R           | 1                | Lower constraint on parameter  |
| CHECKU          | Input                    | R           | 1                | Upper constraint on parameter  |
| NOTHER          | Input                    | I           | 1                | Number of other operations to have ratio or difference maintained for the parameter being optimized. |
| OA              | Both                     | R           | MOA              | The entire OA array. Contains the information for each of the parameters to be optimized.            |
| MOA             | Input                    | I           | 1                | Dimension of the OA array  |
| P               | Input                    | R           | MP               | The entire P array   |
| MP              | Input                    | I           | 1                | The dimension of the P array   |
| A               | Both                     | R           | MA               | The array containing the initial values of the parameters to be optimized                            |
| MA              | Input                    | I           | 1                | Dimension of the A array   |
| NPARAM          | Both                     | I           | 1                | Number of the parameter being read into the OA array (in order entered). Must be between 1-16.       |
| IU              | Both                     | I           | 1                | Space required in OA to store parameter information  |
| LEFTOA          | Both                     | I           | 1                | Space remaining in the OA array  |
| IERO            | Both                     | I           | 1                | Error flag. Message will be printed.<br>0 = no error<br>1 = error                                    |