

SUBROUTINE OPUGCK

Description

This subroutine checks to see which unit hydrograph adjustment parameter currently is being optimized and if the other parameter has also been included for optimization.

Calling Sequence

CALL OPUGCK (P, MP, OA, MOA, A, MA, PARM, ILOCOA, MILOC, JB, UGH, UGV, NPARM, OPNEW)

Argument List

| <u>Variable</u> | <u>Input/ Output</u> | <u>Type</u> | <u>Dimension</u> | <u>Description</u> |
|-----------------|--------------------------|-------------|------------------|--|
| P | Input | R | MP | The entire P array |
| MP | Input | I | 1 | The dimension of the P array |
| OA | Input | R | MOA | The entire OA array. Contains the information for each of the parameters to be optimized |
| MOA | Input | I | 1 | The dimension of the OA array |
| A | Input | R | MA | The array containing the initial values of the parameters to be optimized |
| MA | Input | I | 1 | Dimension of the A array |
| PARM | Input | R | 2 | 8-character identifier for the parameter |
| ILOCOA | Input | I | MILOC | An integer array containing pointers to be beginning of the OA array for each parameter |
| MILOC | Input | I | 1 | Dimension of the OA array |
| JB | Input | I | 1 | Parameter from the A array being optimized |
| UGH | Input | R | 1 | The horizontal adjustment parameter that is being optimized and is used to compute a new unit hydrograph |
| UGV | Input | R | 1 | The vertical adjustment parameter that is being optimized and is used to compute a new unit hydrograph |
| NPARM | Input | I | 1 | Number of parameters to be optimized |
| OPNEW | Input | R | 2 | 8-character user-supplied name for the operation (same as in MCP3 input) |