## Description

Subroutine ESGCHK checks on the time series for a Segment.

These checks include:
- o  Making sure all time series defined for the forecast program
     have been defined for ESP.  This includes checking the Segment
     identifier on ESP and forecast files and their creation dates.
     If the ESP creation date is earlier than the forecast creation
     date then all of the time series are checked with a call to
     ECHKTS.
- o  Making sure all time series defined as input were previously
     defined as output.  This includes keeping track of all time
     series defined as output.  This includes keeping track of all
     time series defined as output.


## Calling Sequence

CALL ESGCHK (a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r)


## Argument List

| Argument | Input/<br>Output | Type | Dimension | Description |
|----------|--------|------|-----------|-------------|
| a | Input | I*4 | 1 | Record number of the Segment on the Forecast Component files |
| b | Input | R*4 | * | Array P |
| c | Input | I*4 | 1 | Maximum length of array P |
| d | Input | R*4 | * | Array T |
| e | Input | I*4 | 1 | Maximum length of array T |
| f | Input | R*4 | * | Array TS |
| g | Input | I*4 | 1 | Maximum length of array TS |
| h | Input | R*4 | * | Array PESP |
| i | Input | I*4 | 1 | Maximum length of array PESP |
| j | Input | R*4 | * | Array SPESP |
| k | Input | I*4 | 1 | Maximum length of array SPESP |
| l | Input | R*4 | * | Array TSESP |

| Argument | Input/ Output | Type | Dimension | Description |
|----------|--------|------|-----------|-------------|
| m | Input | I*4 | 1 | Maximum length of array TSESP |
| n | Both | R*4 | * | Work space array containing information on each output time series in seven consecutive locations: 8-character identifier, 4-character data type code, data time interval and 12-character descriptor |
| o | Input | I*4 | 1 | Maximum length of array n |
| p | Both | I*4 | 1 | Location of last piece of information stored in array n |
| q | Both | I*4 | 1 | Total number of time series that have been stored in array n |
| r | Output | I*4 | 1 | Error indicator: 0 = no error occurred >1 = error occurred |