

ADAS Subroutine xxlim4

SUBROUTINE XXLIM4 (GMIN , GMAX , X , N , CUTMIN)

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C
C ***** FORTRAN77 SUBROUTINE: XXLIM4 *****
C
C PURPOSE:
C         FINDS MAXIMA AND MINIMA OF A LIST OF X VALUES AND RETURNS
C         THE SCALE RANGE FOR PLOTTING ON A LOG TO THE BASE 10 GRID.
C         I.E. LOG10 RANGE TO NEAREST APPROPRIATE INTEGERS.
C
C         (RANGE IN LINEAR UNITS = GMIN -> GMAX)
C         (REAL VERSION OF 'XXLIM8')
C
C CALLING PROGRAM: GENERAL USE
C
C SUBROUTINE:
C
C OUTPUT: (R*4)  GMIN    = LOWER LIMIT FOR GRAPH X-AXIS (LINEAR)
C OUTPUT: (R*4)  GMAX    = UPPER LIMIT FOR GRAPH X-AXIS (LINEAR)
C INPUT  : (R*4)  X( )    = INPUT X-VALUES
C INPUT  : (I*4)  N      = NUMBER OF INPUT X-VALUES
C INPUT  : (R*4)  CUTMIN  = MINIMUM ALLOWED VALUE FOR 'GMIN' (LINEAR).
C                          ('CUTMIN=0' EFFECTIVELY REMOVES ITS EFFECT)
C
C         (I*4)  NCMAX   = PARAMETER = MAXIMUM NUMBER OF LOG10 CYCLES
C                          ALLOWED IN GHOST80
C         (I*4)  IMIN    = MINIMUM LOG10 CYCLE
C         (I*4)  IMAX    = MAXIMUM LOG10 CYCLE
C         (I*4)  I       = GENERAL USE
C
C AUTHOR:   PAUL E. BRIDEN (TESSELLA SUPPORT SERVICES PLC)
C           K1/0/81
C           JET EXT. 4569
C
C DATE:    02/08/90
C
C UNIX-IDL PORT:
C
C VERSION: 1.1                      DATE: 06-09-95
C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC)
C           - FIRST RELEASE (NO CHANGES)
C VERSION  : 1.2
C DATE     : 20-12-2001
C MODIFIED : Martin O'Mullane
C           - Removed mainframe listing information beyond column 72.
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INTEGER		N			
REAL		CUTMIN,	GMAX,	GMIN,	X(N)