

## ADAS Subroutine xxlm28

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SUBROUTINE XXLM28 ( GMIN , GMAX ,  
& Y ,  
& NDIM1 , NDIM2 ,  
& LMAX1 , LMAX2 ,  
& CUTMIN  
& )
```

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C-----  
C  
C ***** FORTRAN77 SUBROUTINE: XXLM28 *****  
C  
C PURPOSE:  
C     FINDS MAXIMA AND MINIMA OF A 2-DIMENSIONAL ARRAY OF Y-VALUES  
C     AND RETURNS THE SCALE RANGE FOR PLOTTING ON A LOG TO THE  
C     BASE 10 GRID.  
C  
C     I.E. LOG10 RANGE COVERING BOTH DIMENSIONS TO THE NEAREST  
C     APPROPRIATE INTEGERS.  
C     (RANGE IN LINEAR UNITS = GMIN -> GMAX)  
C     (REAL*8 VERSION OF 'XXLM24')  
C  
C CALLING PROGRAM: GENERAL USE  
C  
C SUBROUTINE:  
C  
C OUTPUT: (R*4)  GMIN    = LOWER LIMIT FOR GRAPH Y-AXIS (LINEAR)  
C OUTPUT: (R*4)  GMAX    = UPPER LIMIT FOR GRAPH Y-AXIS (LINEAR)  
C  
C INPUT  : (R*8)  Y(, )   = TWO-DIMENSIONAL ARRAY OF INPUT Y-VALUES.  
C  
C INPUT  : (I*4)  NDIM1   = FIRST 'Y(,)' ARRAY DIMENSION BOUND  
C INPUT  : (I*4)  NDIM2   = SECOND 'Y(,)' ARRAY DIMENSION BOUND  
C  
C INPUT  : (I*4)  LMAX1   = RANGE OF FIRST 'Y(,)' ARRAY DIMENSION  
C                      TO BE ASSESSED (1 -> LMAX1) (LMAX1<=NDIM1)  
C INPUT  : (I*4)  LMAX2   = RANGE OF SECOND 'Y(,)' ARRAY DIMENSION  
C                      TO BE ASSESSED (1 -> LMAX2) (LMAX2<=NDIM2)  
C  
C INPUT  : (R*4)  CUTMIN  = MINIMUM VALUE FOR 'GMIN' (LINEAR).  
C                      ('CUTMIN=0' EFFECTIVELY REMOVES ITS EFFECT)  
C  
C          (I*4)  NCMAX   = PARAMETER = MAXIMUM ALLOWED NUMBER OF LOG10  
C                      CYCLES ALLOWED IN GHOST80  
C  
C          (I*4)  IMIN    = MINIMUM LOG10 CYCLE  
C          (I*4)  IMAX    = MAXIMUM LOG10 CYCLE  
C          (I*4)  I       = GENERAL USE  
C          (I*4)  J       = GENERAL USE  
C  
C  
C NOTES:  
C     A MINIMUM AVALUE FOR 'GMIN' IS SPECIFIED IN THE ARGUMENTS.  
C     (SEE 'CUTMIN').
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C
C ROUTINES: NONE
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 MADE)
C
C VERSION   : 1.2
C DATE      : 10-04-2007
C MODIFIED  : Allan Whiteford
C           - Modified documentation as part of automated
C   subroutine documentation preparation.
C-----
      INTEGER          LMAX1,          LMAX2,          NDIM1,          NDIM2
      REAL             CUTMIN,         GMAX,           GMIN
      REAL*8           Y (NDIM1, NDIM2)

```