

ADAS Subroutine xxbase

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subroutine xxbase( a , ia , base_a , value , code )
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c
c ***** fortran77 subroutine: xxbase *****
c
c purpose: to produce a number from representation as  $a \cdot \text{base}^{\text{ia}}$ 
c           protected against underflow and overflow.
c
c input : (r*8)  a      = mantissa part of number
c input : (r*8)  ia     = characteristic part of number
c input : (c*(*))code = 'zero' => zero a delivered if underflow
c                   'min' => minimum number delivered
c output: (r*8)  value  = evaluated number
c
c
c routines:
c
c routine      source      brief description
c-----
c xxbasr      adas         convert scaled number to new base
c i4unit      adas         fetch unit number for output of messages
c
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c date:       07-05-2008
c
c
c version    : 1.1
c date       : 07-05-2008
c modified   : Hugh Summers
c             - first version.
c-----
c
c CHARACTER*(*)      CODE
c INTEGER            IA
c REAL*8             A,      BASE_A,      VALUE
```