

## ADAS Subroutine r8expe

REAL\*8 FUNCTION R8EXPE( VALUE , EXPON , CODE )

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C  
C \*\*\*\*\* FORTRAN77 REAL\*8 FUNCTION: R8EXPE \*\*\*\*\*  
C  
C PURPOSE: TO PRODUCE A NUMBER FROM VALUE AND EXPONENT PARTS PROTECTED  
C AGAINST UNDERFLOW AND OVERFLOW. (NUMBER=VALUE\*EXP(EXPON))  
C  
C INPUT : (R\*8) VALUE = VALUE PART OF COMPOSITE NUMBER  
C INPUT : (R\*8) EXPON = EXPONENT OF COMPOSITE NUMBER  
C INPUT : (C\*(\*))CODE = 'ZERO' => ZERO VALUE DELIVERED IF UNDERFLOW  
C 'MIN' => MINIMUM VALUE DELIVERED  
C OUTPUT: (R\*8) R8EXPE = EVALUATED NUMBER  
C  
C ROUTINES:  
C NONE  
C  
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C  
C DATE: 16/09/99  
C  
C UPDATE:  
C  
C VERSION: 1.1  
C-----

CHARACTER*(*)	CODE	
REAL*8	EXPON,	VALUE