AVSUM(3) AVSUM(3)

NAME

avsum - Single-precision vector sum

SYNOPSIS

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Fortran (77, 90, 95, HPF):

f77 [ flags ] file(s) ... -L/usr/local/lib -lgjl

REAL FUNCTION avsum(x,n)

INTEGER n

REAL x(*)

C (K&R, 89, 99), C++ (98):

cc [ flags ] -l/usr/local/include file(s) ... -L/usr/local/lib -lgjl

Use

#include <gjl.h>

to get this prototype:

void avsum(fortran_single_precision * x_,

const fortran_integer * n_);
```

NB: The definition of C/C++ data types **fortran**_ *xxx*, and the mapping of Fortran external names to C/C++ external names, is handled by the C/C++ header file. That way, the same function or subroutine name can be used in C, C++, and Fortran code, independent of compiler conventions for mangling of external names in these programming languages.

DESCRIPTION

Return an accurate estimate of the sum x(1) + x(2) + ... + x(n) using double-precision summation.

AUTHORS

The algorithms and code are described in detail in the paper

Fast Gaussian Quadrature for Two Classes of Logarithmic Weight Functions in ACM Transactions on Mathematical Software, Volume ??, Number ??, Pages ????--???? and ????--????, 20xx, by

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