trapz

Numerical integration using the composed trapezoidal rule.

Syntax

trapz(x,y)

Return Value

The result of the integral $\int_{min(x)}^{max(x)} ydx$, in double precision.

Arguments

x - (float array) abscissae

y - (float array) ordinates

Keywords

none

Example

Evaluate, numerically, the value of the integral $\int_0^1 xdx = 1/2$.

```
IDL>        x=dindgen(101)/100.d0
IDL>        y=x
IDL>        print,trapz(x,y)
0.50000000
```

Version History

C. Allende Prieto, Sep 1998

", March 2010, changed loop variable to long

See Also

http:en.wikipedia.orgwikiTrapezoidal_rule