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Scalar Product of Two Space-Time Vectors

Function subprogram `DOTI` computes the scalar product $\mathbf{a}.\mathbf{b}$ of two space-time vectors (a_1, a_2, a_3, ia_4), (b_1, b_2, b_3, ib_4), where $i = \sqrt{-1}$, i.e.

$$\mathbf{a}.\mathbf{b} \ = \ a_1 b_1 + a_2 b_2 + a_3 b_3 - a_4 b_4.$$

Structure:

`FUNCTION` subprogram
User Entry Names: `DOTI`

Usage:

In any arithmetic expression,

```
DOTI(A,B)
```

has the value $\mathbf{a}.\mathbf{b}$.

`A,B` (`REAL`) One-dimensional arrays of length 4, containing $a_j, b_j, (j = 1, 2, 3, 4)$, respectively.

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