

e() — Unit vectors

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## Description

$e(i, n)$  returns a  $1 \times n$  unit vector, a vector with all elements equal to zero except for the  $i$ th, which is set to one.

## Syntax

*real rowvector*  $e(\text{real scalar } i, \text{real scalar } n)$

## Conformability

|             |                 |              |
|-------------|-----------------|--------------|
| $e(i, n)$ : |                 |              |
|             | $i$ :           | $1 \times 1$ |
|             | $n$ :           | $1 \times 1$ |
|             | <i>result</i> : | $1 \times n$ |

## Diagnostics

$e(i, n)$  aborts with error if  $n < 1$  or if  $i < 1$  or if  $i > n$ . Arguments  $i$  and  $n$  are interpreted as `trunc( $i$ )` and `trunc( $n$ )`.

## Also see

[M-4] [standard](#) — Functions to create standard matrices